User Manual

Megapixel
IP CAMERA

WARINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

COPYRIGHT

THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

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I. Preface

This IP Camera is a 1.3 Megapixel cube IP camera with the web server built in. User can view real-time video via IE browser. IP Camera supports simultaneously H.264, Motion JPEG & MPEG4 video compression and dual streaming which provides smooth and high video quality. The video can be stored in the SD card and played back remotely. With user friendly interface, it is an easy-to-use IP camera which is designed for security application.

II. Product Specifications

Main Features:

- 1.3 Mega Outdoor IP Camera
- Support HD 720P Real Time
- Digital Wide Dynamic Range
- Shutter Speed adjustable
- Sense Up adjustable
- Day&Night Switch time control manual
- Power over Ethernet
- IP66
- H.264/ M-JPEG/ MPEG4 compression
- Micro SD card backup(Option)
- Support iPhone/iPad/Android
- SDK for Software Integration
- Free Bundle 36 ch recording software

Hardware	
CPU	ARM 9 ,32 bit RISC
RAM	128MB
Flash	16MB
Image sensor	1 / 4” Megapixel CMOS sensor
Sensitivity	B / W: 0.5 Lux (AGC ON)
Shutter Time	1 / 10 ~ 1 / 10,000 sec
Lens Type	4.2mm @ F1.6
I/O	DI/DO
View Angle	52.6°(H), 32.9°(V)
Power over Ethernet	Yes

Power Consumption	DC 12V:3.48 W (IR Off), 4.68 W (IR On) PoE: 4.32 W (IR Off), 6.24 W (IR On)
Operating Temperature	-10°C ~ 45°C
Dimensions	φ74 x H110 mm
Weight	450g(w/o bracket)
IR LEDs (Optional)	
LEDs	35 units
IR distance	20 Meters
Network	
Ethernet	10/ 100 Base-T
Network Protocol	IPv6, IPv4, HTTP, HTTPS, SNMP, QoS/DSCP, Access list, IEEE 802.1X, RTSP, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, SAMBA, Bonjour
System	
Video Resolution	1280x1024@20fps, 1280x720@30fps, ,640x480@30fps, 320x240@30fps, 176x144@30fps
Video Adjust	Brightness, Contrast, Hue, Saturation, Sharpness, AGC, Shutter Speed adjustable, Sense-Up, D-WDR, Flip, Mirror, Noise reduction, Day&Night adjustable
Triple Streaming	Yes
Image Snapshot	Yes
Full Screen Monitoring	Yes
Privacy Mask	Yes, 3 different areas
Compression Format	H.264/ M-JPEG/ MPEG4
Video Bitrates Adjust	CBR, VBR
Motion Detection	Yes, 3 different areas
Triggered Action	Mail, FTP, Save to SD card, DO, SAMBA
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, 802.1X port-based authentication for network protection, QoS/DSCP
Firmware Upgrade	HTTP mode, can be upgraded remotely
Simultaneous Connection	Up to 10
Micro SD card management (Option)	
Recording Trigger	Motion Detection, IP check, Network break down (wire only),Schedule, DI
Video Format	AVI, JPEG
Video Playback	Yes

Delete Files	Yes
Web browsing requirement	
OS	Windows 7, 2000, XP, 2003, Microsoft IE 6.0 or above, Chrome, Safari, Firefox
Mobile Support	iOS 4.3 or above, Android 1.6 or above.
Hardware Suggested	Intel Dual Core 2.53G,RAM: 1024MB, Graphic card: 128MB

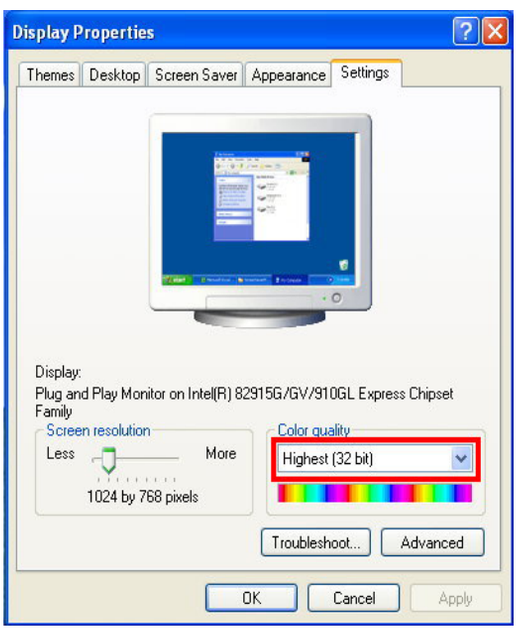
*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

III. Product Installation

A. Monitor Setting

1. Right-Click on the desktop. Select “ Properties”

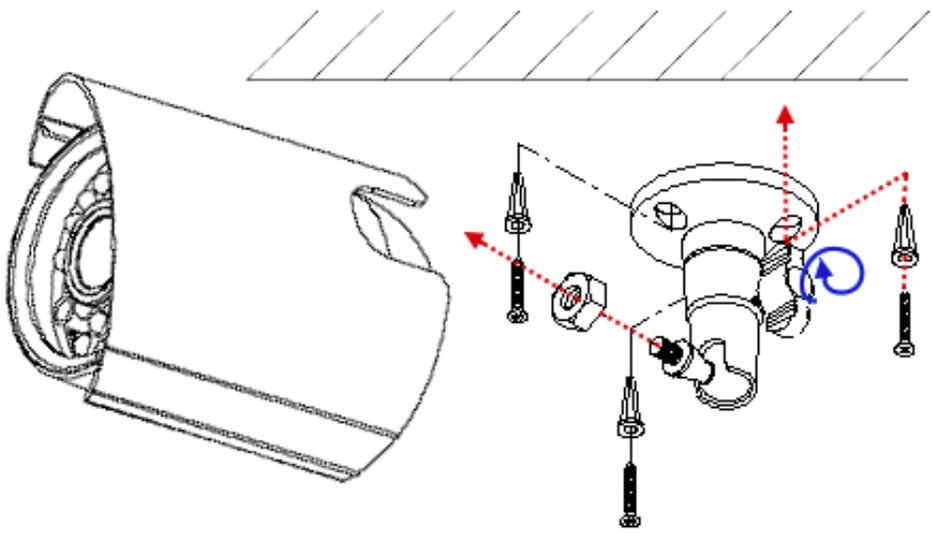
2. Change color quality to highest (32bit).



B. Hardware Installation

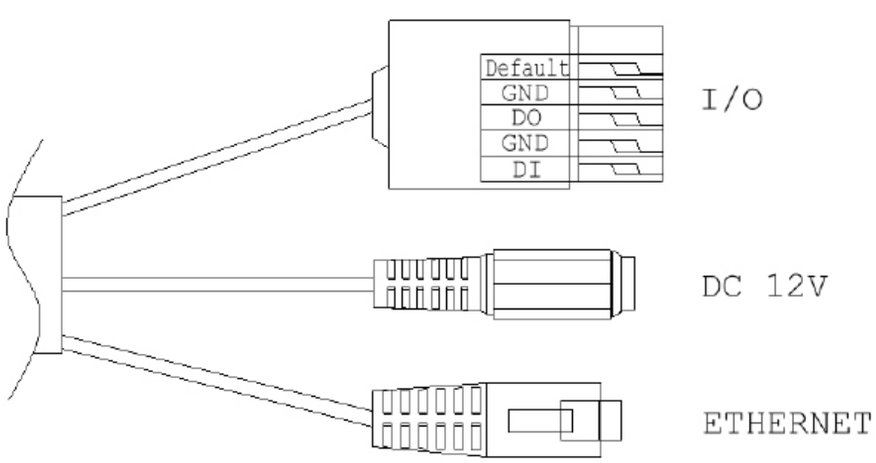
1. Camera Bracket

The bracket can be locked on the back or the bottom of the camera. After you connect bracket with camera, turn and tighten the screw nut to fix it. Then use the three screws to install the bracket on the ceiling, wall, or desk. Turn the knob to lossen it, and adjust the camera angle, and then turn the knob to tighen it.



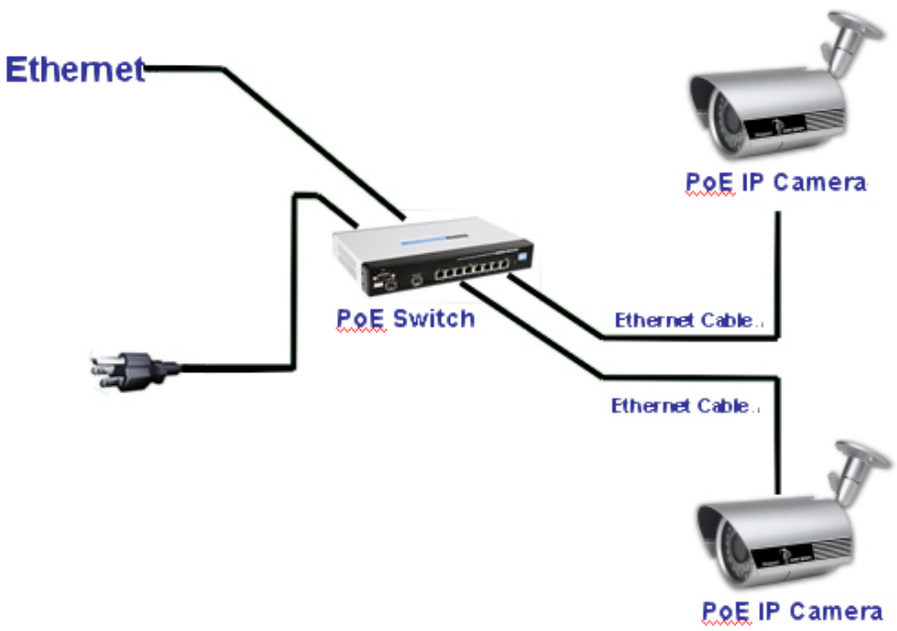
2. Connector Instruction

The camera cable is as below. Plug in the power adaptor or use ethernet connector for PoE. Connect the IP camera to PC or network. Set up the network configurations according to the network environment. About I/O setting, please refer to chapter VII in User Manual: "I/O Configuration" for detail.



3. PoE (Power Over Ethernet)(Optional) 802.3af, 15.0W PoE Switch is recommended

Power over Ethernet (PoE) is a technology that integrates power into a standard LAN infrastructure. It enables power to be provided to the network device, such as an IP phone or a network camera, using the same cable as that used for network connection. It eliminates the need for power outlets at the camera locations and enables easier application of uninterruptible power supplies (UPS) to ensure 24 hours a day, 7 days a week operation.

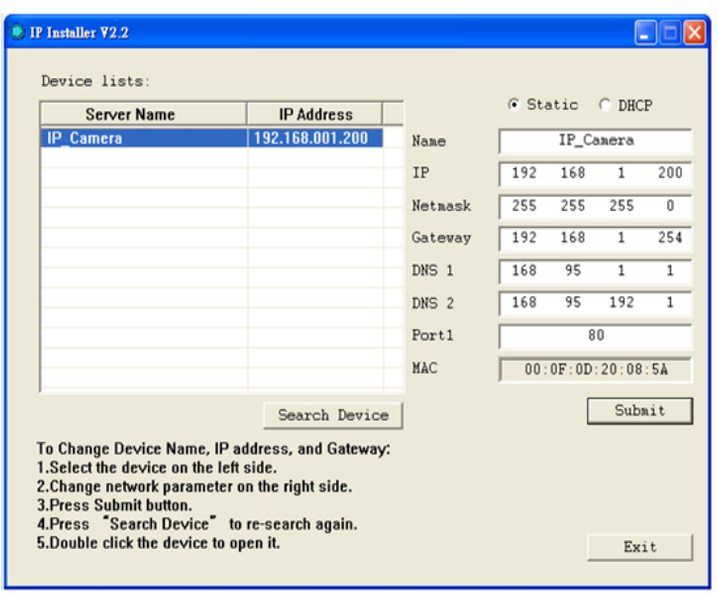


C. IP Assignment

1. You can use the software“IP Installer” to assign the IP address of IP Camera. The software is in the attached CD.
2. There are two language versions of IP installer. Choose one as your need:
   IPInstallerCht.exe: Chinese version
   IPInstallerEng.exe: English version
3. There are 3 kinds of IP configuration.
   a. Fixed IP (Public IP or Virtual IP)
   b. DHCP (Dynamic IP)
   c. Dial-up (PPPoE)
4. Execute IP Installer
5. For Windows XP SP2 user, the following message box may pop up. Please click “Unblock”.

Windows Security Alert
To help protect your computer, Windows Firewall has blocked some features of this program.
Do you want to keep blocking this program?
Name: IPInstaller V2.1 Network Device Scan
Publisher: Unknown
Keep Blocking
Unblock
Ask Me Later
Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

6. IP Installer configuration:



7. IP Installer will search for all IP Cameras connected on Lan. Click “Search Device” to refresh the result list.
8. Click one of the IP Camera listed on the left side. The network configuration of this IP camera shows on the right side. You may change the “name” of the IP Camera as your preference (eg: Office, warehouse). Change the parameter and click “Submit” . It will apply the change and reboot the Device.

9. Please make sure that the IP address of your PC and IP Camera are on the same subnet.

The same Subnet:

IP CAM IP address: 192.168.1.200

PC IP address: 192.168.1.100

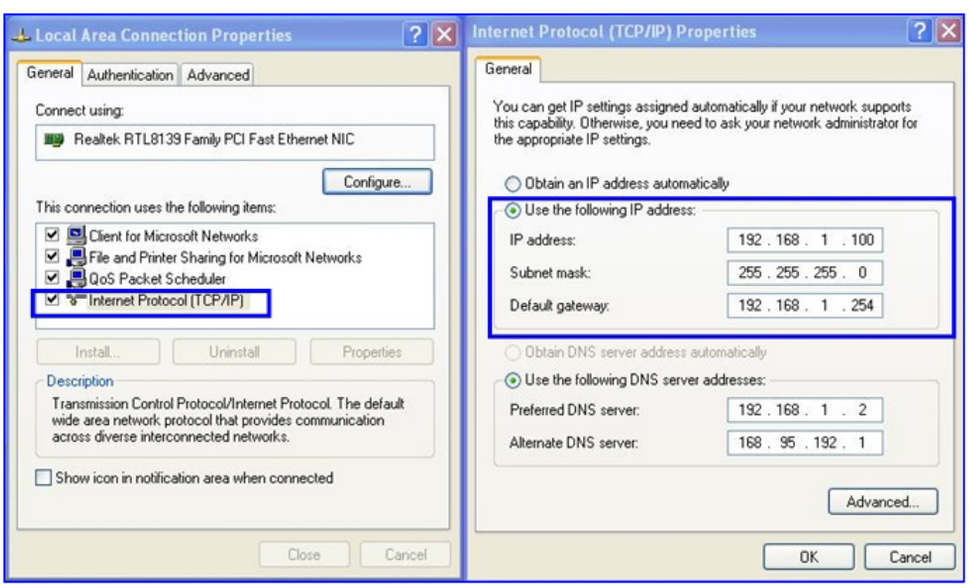
Different Subnets:

IP CAM IP address: 192.168.2.200

PC IP address: 192.168.1.100

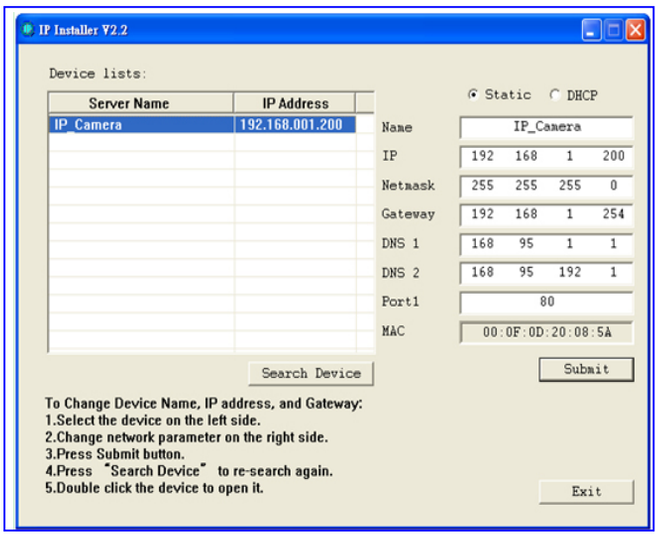
To Change PC IP address:

Control Panel→Network Connections→ Local Area Connection Properties→ Internet Protocol (TCP/IP) → Properties

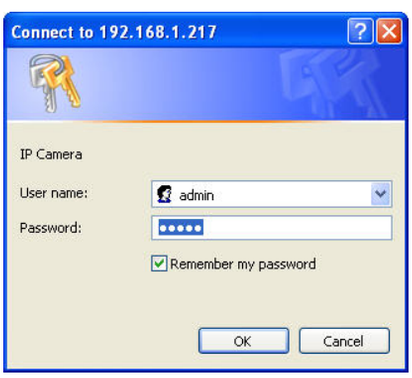

Local Area Connection Properties
General
Authentication
Advanced
Connect using:
Realtek RTL8139 Family PCI Fast Ethernet NIC
Configure...
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
QoS Packet Scheduler
Internet Protocol (TCP/IP)
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected
Close
Cancel
Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 1 . 100
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 1 . 254
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 192 . 168 . 1 . 2
Alternate DNS server: 168 . 95 . 192 . 1
Advanced...
OK
Cancel

10. A quick way to access remote monitoring is to double-click the selected IP

Camera listed on “Device list” of IP Installer. An IE browser will be opened.



11. If you link to the IP Camera successgully, there pops a box asking you to log in. Please key in the default user name"admin" and password"admin" when you link to the IP Camera for the first time. You can revise the user name and password later. Please refer to Chapter V: "A.2. User Management".



D. Install ActiveX control

1. To users of IE 6.0 above

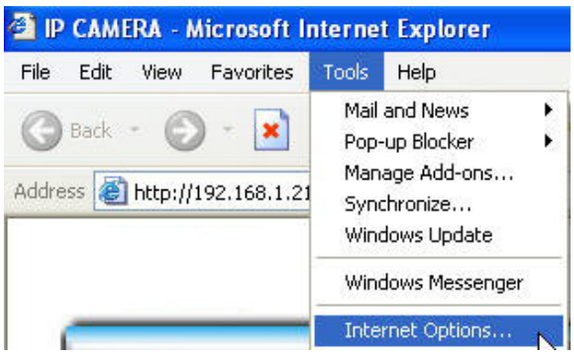
   At the first time you access the camera via IE, it will ask you to install the ActiveX component. If the installation failed, please check the security setting for the IE browser.

   a. Follow the steps: IE→Tools → Internet Options… → Security Tab → Custom Level… → Security Settings.

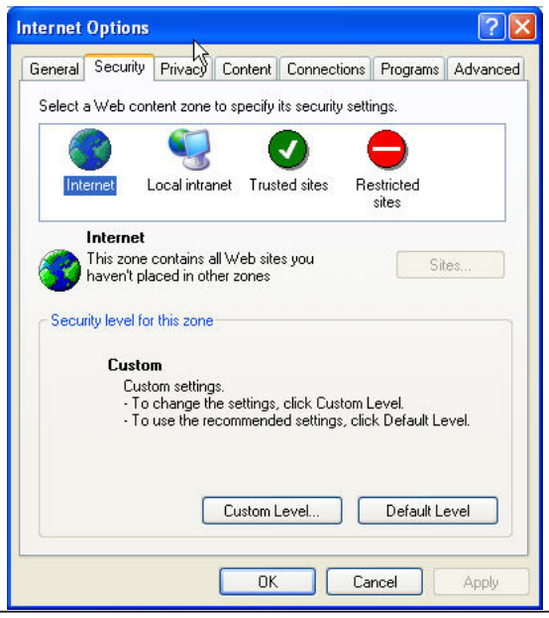
   Find the option "Download unsigned ActiveX control"→ Select “Enable” or Prompt.

   Find the option "Initialize and script ActiveX controls not marked as safe" → Select “Enable” or Prompt.

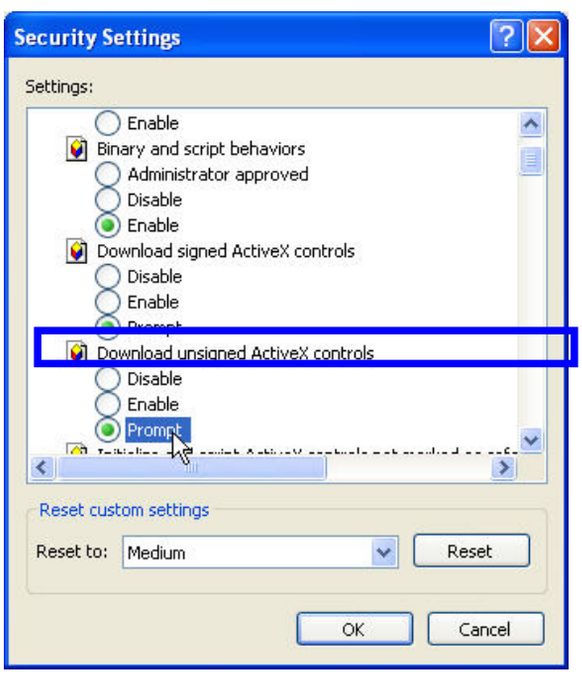
1



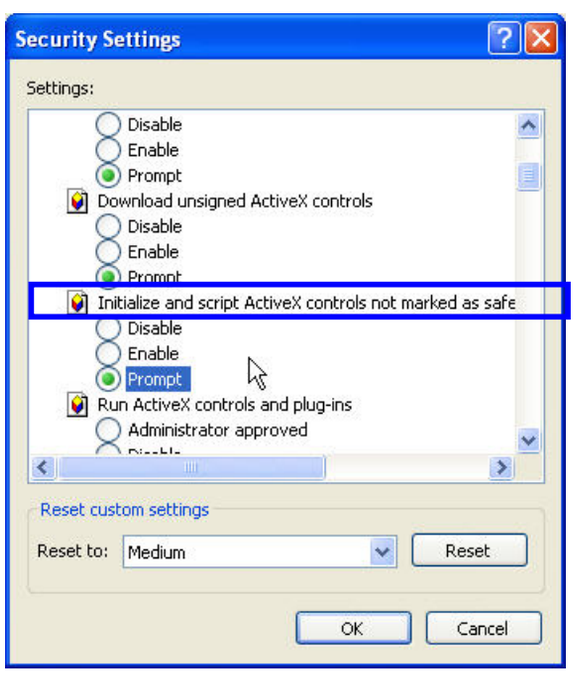
2



3

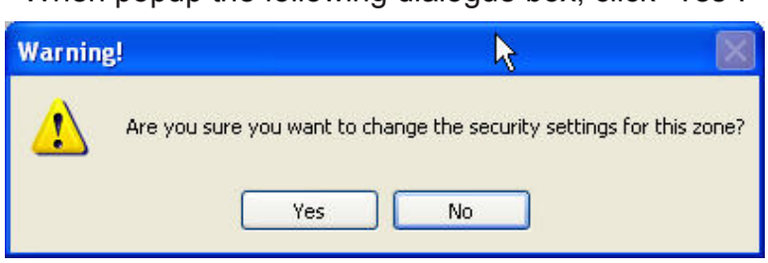


4

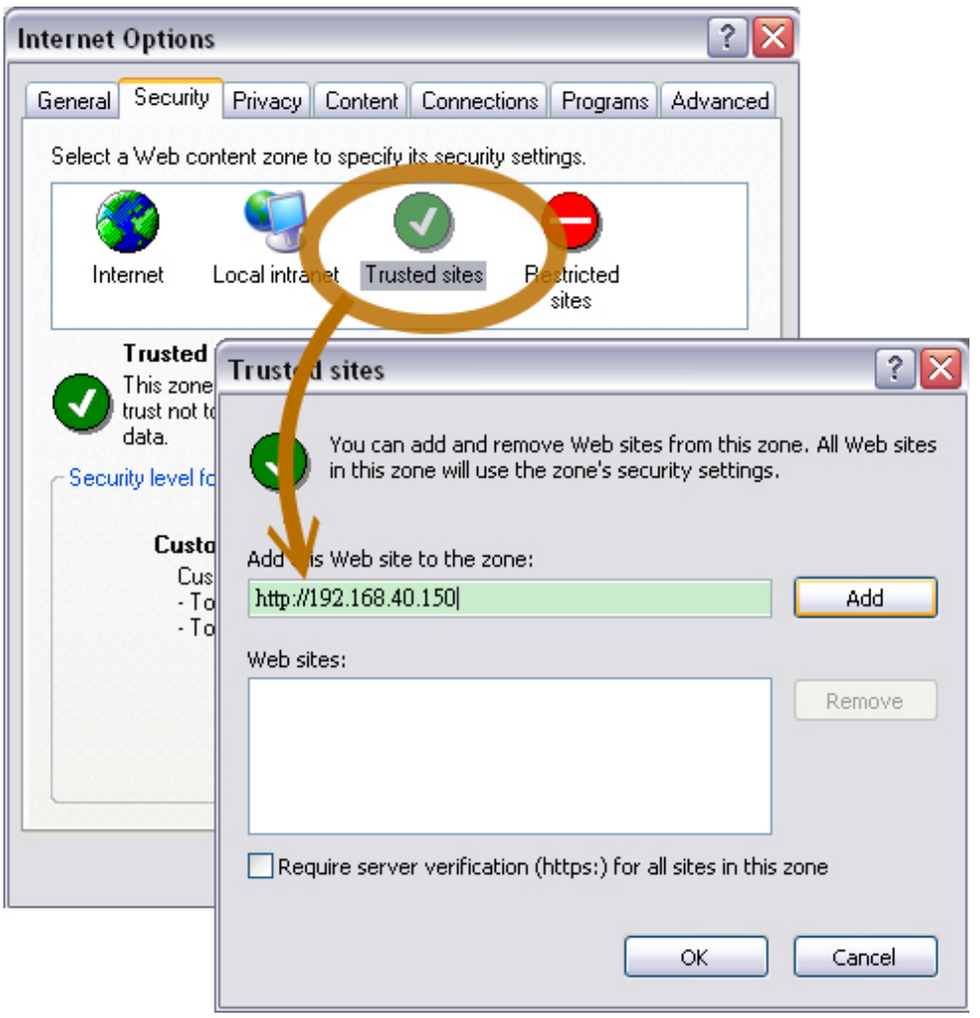


5

When popup the following dialogue box, click “Yes”.



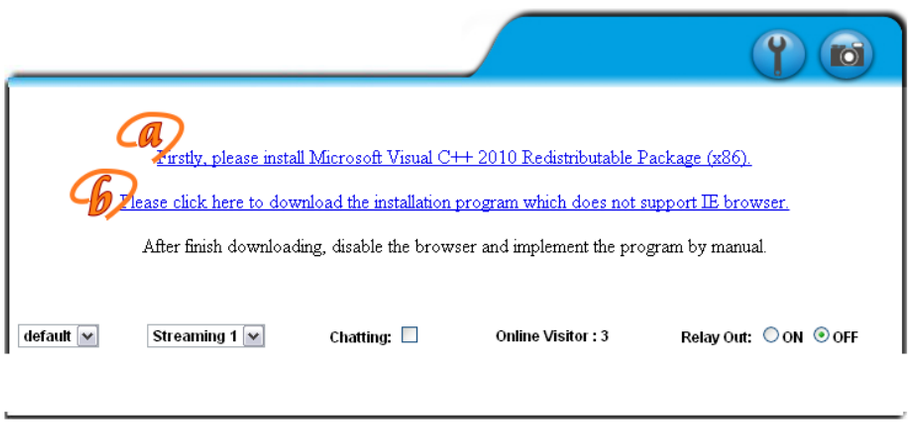
b. You can choose another way. Go to: IE→Tools → Internet Options… → Security Tab → Trusted sites → Add the IP address and click "OK".
In the site list you can key one single IP address or a LAN address. For example, if you add "192.168.21.*", all the IP address under .21 LAN will be regarded as trusted sites.



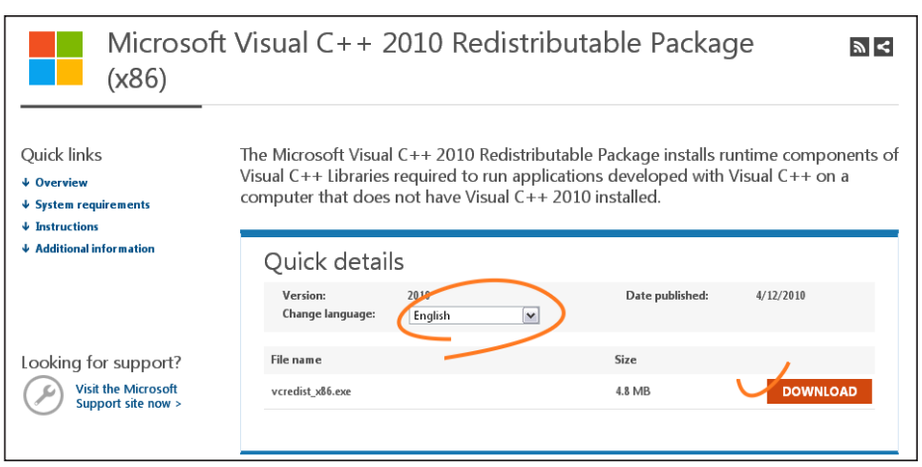
2. Use Non-IE Web Browser

If you use firefox or google chrome to access the IP camera but fail to watch the live video, please follow the steps to install necessary tools:
(the following pictures are based on chrome.)

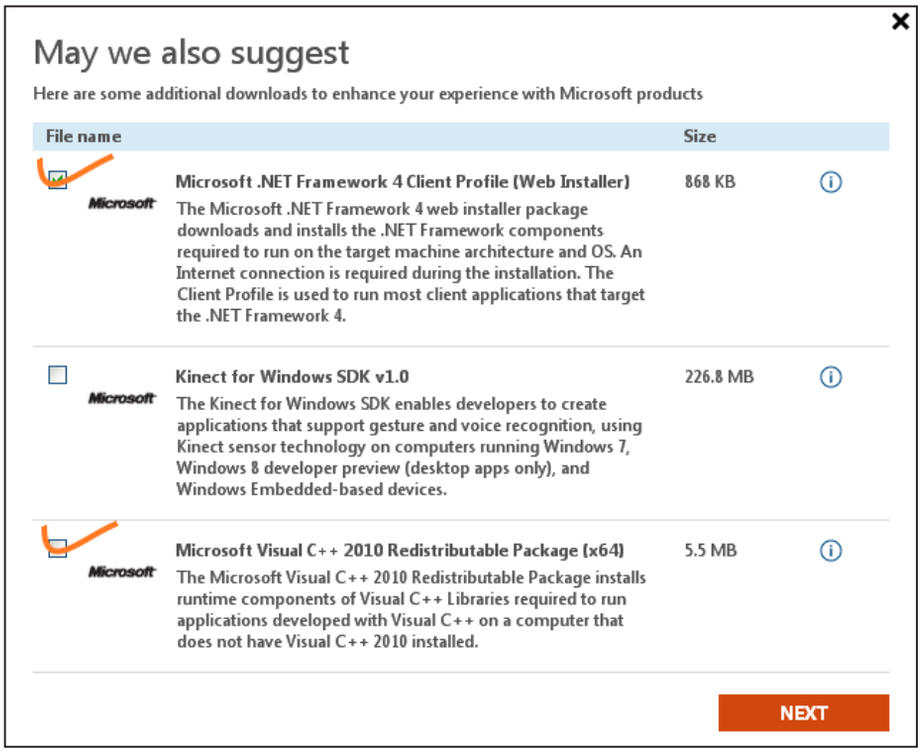
a. You may see the prompt message as the picture below. First, Click the link: "Firstly, please install Microsoft Visual C++ 2010 Redistributable Package (x86)."


a
Firstly, please install Microsoft Visual C++ 2010 Redistributable Package (x86).
b
Please click here to download the installation program which does not support IE browser.
After finish downloading, disable the browser and implement the program by manual.
default
Streaming 1
Chatting:
Online Visitor : 3
Relay Out: ON OFF

(i) The link conducts you to the Microsoft official site that you can download the tools. Please select the language and click "download".

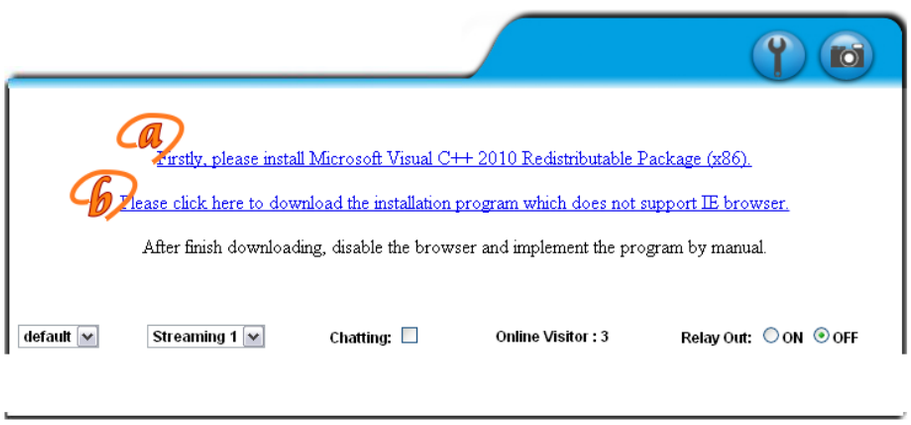

Microsoft Visual C++ 2010 Redistributable Package (x86)
Quick links
Overview
System requirements
Instructions
Additional information
The Microsoft Visual C++ 2010 Redistributable Package installs runtime components of Visual C++ Libraries required to run applications developed with Visual C++ on a computer that does not have Visual C++ 2010 installed.
Quick details
Version:
Date published: 4/12/2010
Change language: English
File name
Size
vcredist_x86.exe
4.8 MB
DOWNLOAD
Looking for support?
Visit the Microsoft Support site now >

(ii) In the pop-up window, please tick the first and the third file as the picture below. Click "Next" to download both "Microsoft .NET Framework 4 Client Profile (Web Installer)" and "Microsoft Visual C++ 2010 Redistributable Package (x64)".

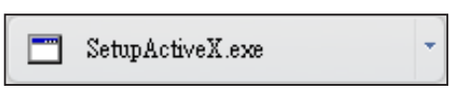

May we also suggest
Here are some additional downloads to enhance your experience with Microsoft products
File name
Size
Microsoft .NET Framework 4 Client Profile (Web Installer)
868 KB
The Microsoft .NET Framework 4 web installer package downloads and installs the .NET Framework components required to run on the target machine architecture and OS. An Internet connection is required during the installation. The Client Profile is used to run most client applications that target the .NET Framework 4.
Kinect for Windows SDK v1.0
226.8 MB
The Kinect for Windows SDK enables developers to create applications that support gesture and voice recognition, using Kinect sensor technology on computers running Windows 7, Windows 8 developer preview (desktop apps only), and Windows Embedded-based devices.
Microsoft Visual C++ 2010 Redistributable Package (x64)
5.5 MB
The Microsoft Visual C++ 2010 Redistributable Package installs runtime components of Visual C++ Libraries required to run applications developed with Visual C++ on a computer that does not have Visual C++ 2010 installed.
NEXT

(iii) After fininshing downloading, execute the two files respectively to install them.The windows may ask you to reboot the PC when the installation finished.

b. Then, Click the second link "Please click here to download the installation program which does not support IE browser." to download Setup ActiveX.

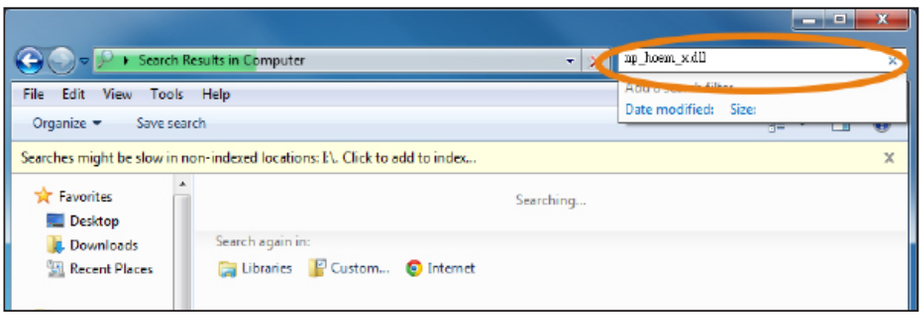

a
Firstly, please install Microsoft Visual C++ 2010 Redistributable Package (x86).
b
Please click here to download the installation program which does not support IE browser.
After finish downloading, disable the browser and implement the program by manual.
default
Streaming 1
Chatting:
Online Visitor : 3
Relay Out: ON OFF

After fininshing downloading, execute the files to install ActiveX. Then restart the browser.

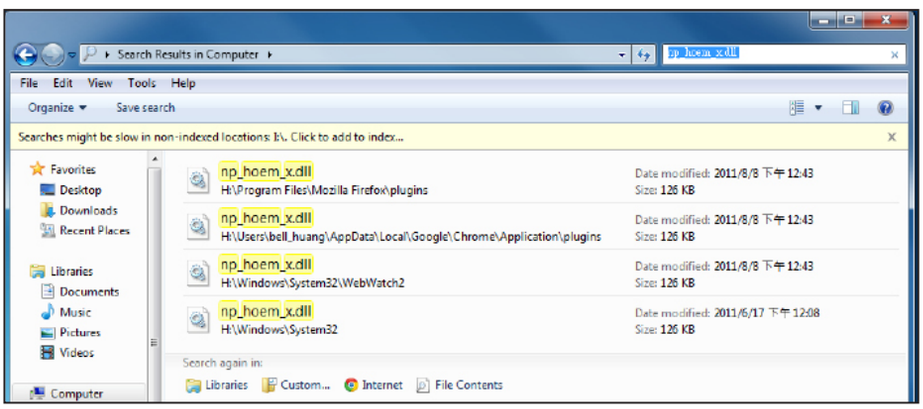


c. If you execute the steps above but still cannot see the live video normally, please try the solution:

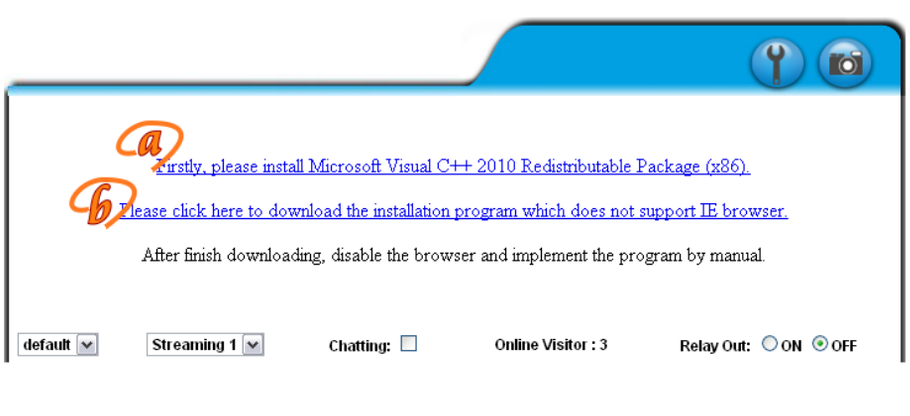
(i) Search for the file "np_hoem_x.dll" in your system disk. For Windows XP users, please go to "Start" → "Search" → Search for "All files and folders" and key in "np_hoem_x.dll". For Windows 7 users, please use the search bar on the top-right of the Windows Explorer.



(ii) Delet all the files named "np_hoem_x.dll". They're the ActiveX control tools having been installed in your computer, but the old version of ActiveX might not compatible with the new version of browser. Therefore, we delete them in order to install the latest ActiveX control.

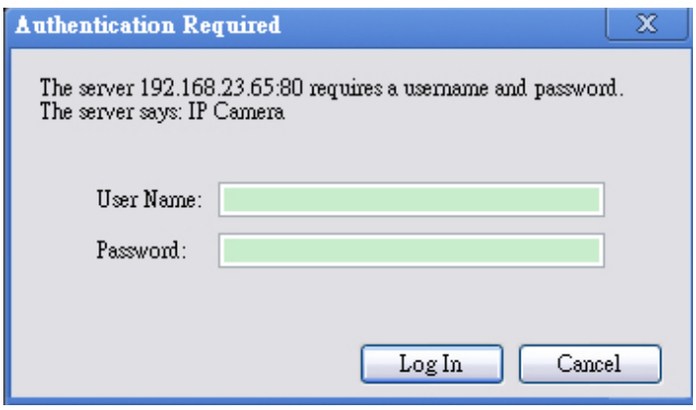


(iii) Start your web browser, and repeat the step 2-b: "Download the installation program which does not support IE browser" to download and install ActiveX.


a
Firstly, please install Microsoft Visual C++ 2010 Redistributable Package (x86).
b
Please click here to download the installation program which does not support IE browser.
After finish downloading, disable the browser and implement the program by manual.
default
Streaming 1
Chatting:
Online Visitor : 3
Relay Out: ON OFF

IV. Live Video

Start an IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the user name and password. The default user name and password are “admin” and “admin”.



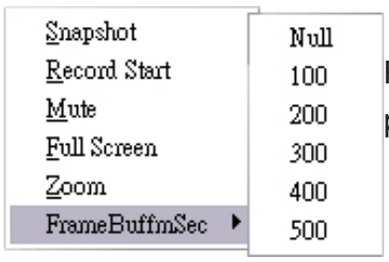
When the IP Camera is connected successfully, it shows the following program interface.

Double-click the video to switch to full screen view. Press “Esc” or double-click the video again back to normal mode.

1. : Get into the administration page

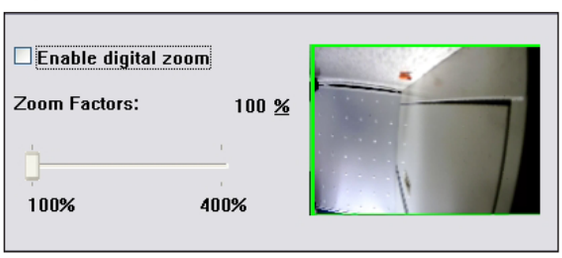
2. : Video Snapshot

3. Show system time, video resolution, and video refreshing rate
4. Adjust image, 1/2x, 1x, 2x
5. Select video streaming source (If in"Video Setting" the streaming 2 setting is closed, this option will not appear here.)
6. IP Camera supports 2-way audio. Click the "Chatting" check box, then you can use microphone connected to the PC to talk to the Camera side.
7. Show how many people connect to this IP camera.
8. Tick the Relay out "ON" box to trigger the relay output for testing. Tick "Off" to stop triggering.



Right-Click the mouse on the video, it will show a pop-up menu.

1. Snapshot: Save a JPEG picture
2. Record Start: Record the video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select "Record Stop". The video format is AVI. Use Microsoft Media Player to play the recorded file.
3. Mute: Turn off the audio. Click again to turn on it.
   The "mute" botton does not affect the playback recording video. As long as the "IP Camera to PC" option in the audio setting is enabled, all the audio will be recorded into the playback video even you click "mute" in the live page.
4. Full Screen: Full-screen mode.
5. Zoom: Enable zoom-in and zoom-out functions. Select "Enable digital zoom" option first within the pop-up dialogue box and then drag and drop the bar to adjust the zoom factors.

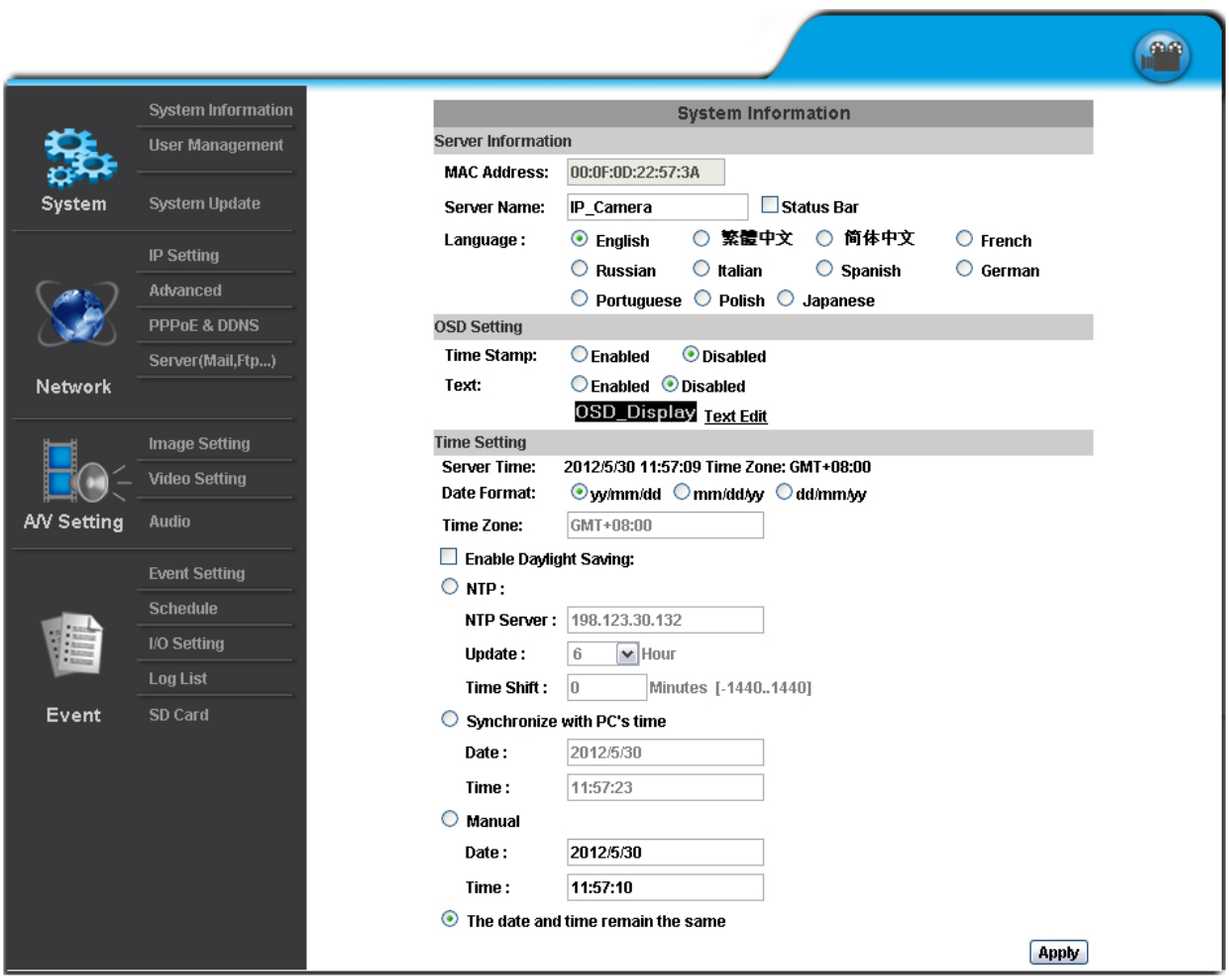


6. Frame Buffm Sec: This function is to build a temporary buffm to accumulate several video frame. This function can make video smooth-going when the Network speed is slow and lag. If you select "100", then it plays video after 100 mSec when starting receiving images from camera. The slower the Network is, the bigger value should be selected. The default value is null.

V. IP Camera Configuration

Click to get into the administration page as below.

Click to back to the live video page.



A. System

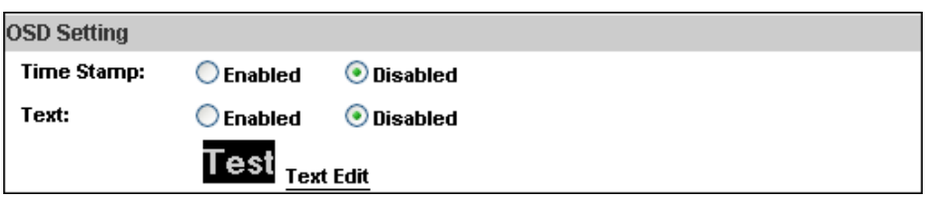
1. System Information

a. Server Information: Set up the camera name, select language, and set up the camera time.

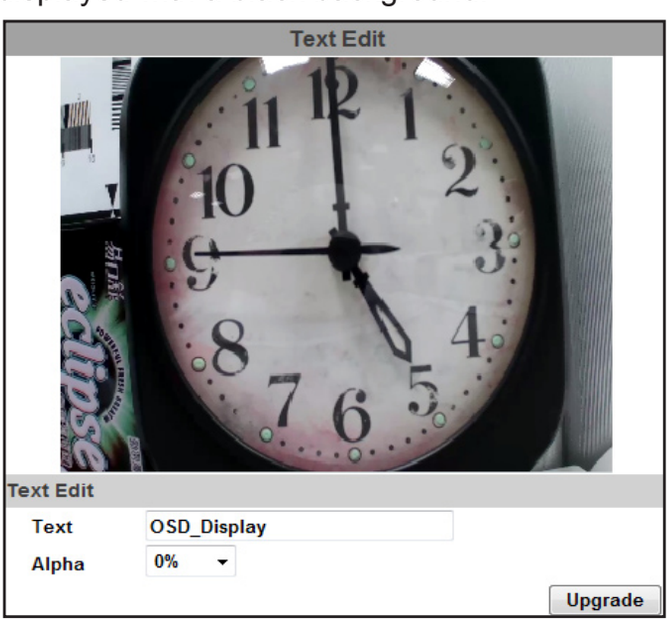
(i) Server Name: This is the Camera name. This name will show on the IP Installer.

(ii) Select language: There are 11 languages to choose from. When you change the language, it will show the following dialogue box for confirmation.

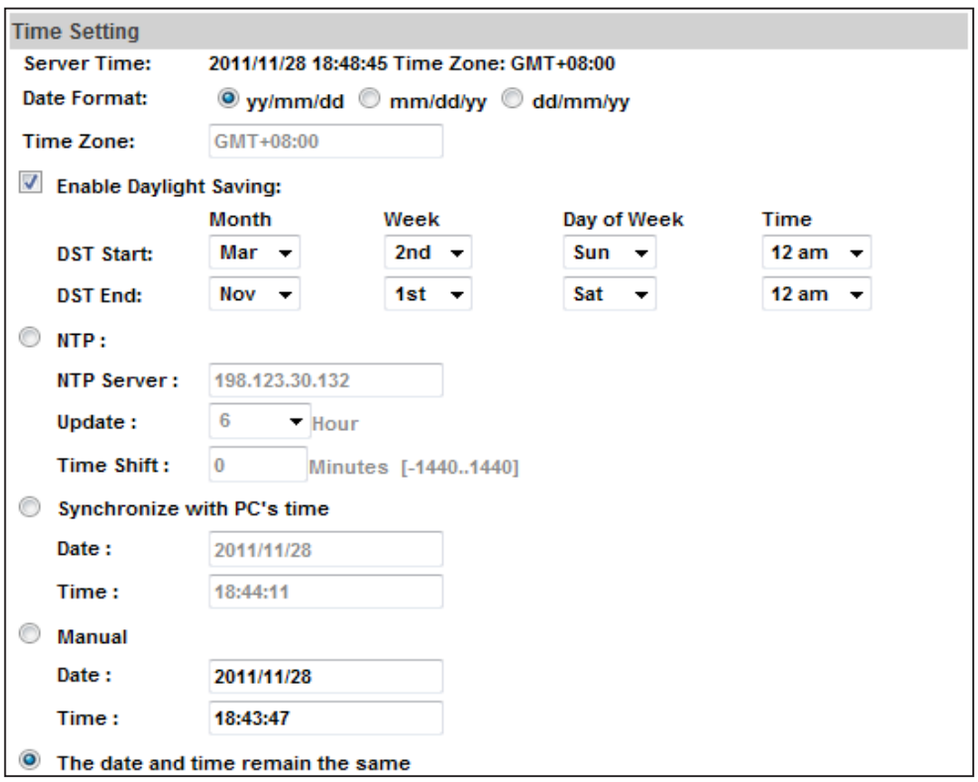
b. OSD Setting: Select a position where date & time stamp / text showing on screen.



Click Text Edit to adjust the OSD text contents. Alpha means background transparency of the text. If you select 100%, the text stamp will be directly displayed on the live screen. If you select 0%, the text stamp will be displayed with a black background.



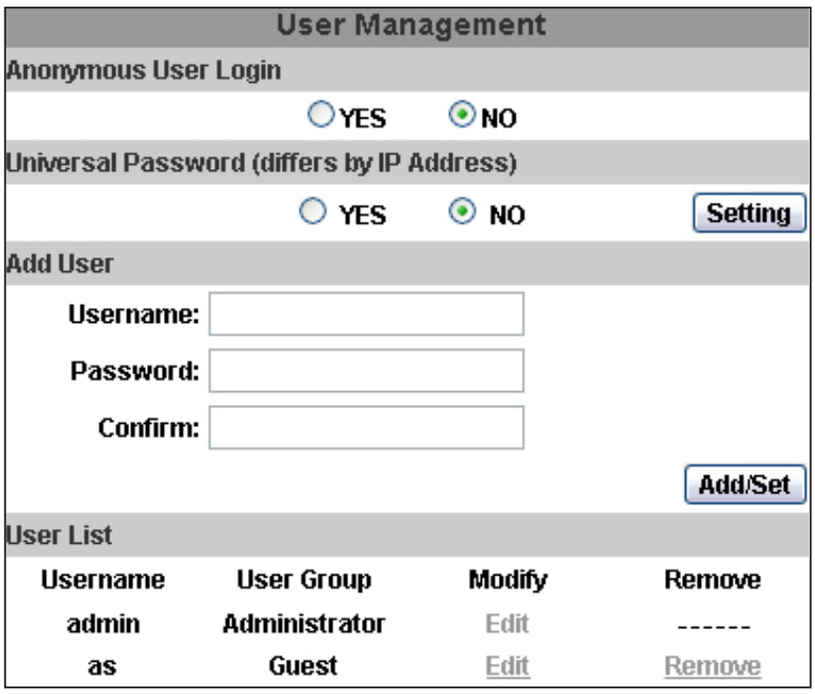
c. Server time setting: Select options to set up time - “NTP”, “Synchronize with PC’s time”, “Manual”, “The date and time remain the same”.


Time Setting
Server Time: 2011/11/28 18:48:45 Time Zone: GMT+08:00
Date Format: yy/mm/dd mm/dd/yy dd/mm/yy
Time Zone: GMT+08:00
Enable Daylight Saving:
Month Week Day of Week Time
DST Start: Mar 2nd Sun 12 am
DST End: Nov 1st Sat 12 am
NTP :
NTP Server : 198.123.30.132
Update : 6 Hour
Time Shift : 0 Minutes [-1440..1440]
Synchronize with PC's time
Date : 2011/11/28
Time : 18:44:11
Manual
Date : 2011/11/28
Time : 18:43:47
The date and time remain the same

- Server Time: It shows current IPCam server time.
- Date Format: Select the date display format.
- Time Zone: Select your time zone. It affects server time when you use “NTP” time.
- Enable Daylight Saving: Give the start and end daylight saving time. During daylight saving, the time will be 1 hour faster.
- NTP: Key in the NTP server IP address and update interval. The camera time will be synchronized with NTP server time. To use this option, if the NTP Server is under WAN, the camera must be set to access WAN.
- Synchronize with PC’s time: In “Date” and “Time” column it shows your current PC time. Click “Apply” to make the camera time the same with PC time.
- Manual: Key in the date and time, and click “Apply”.
- The date and time remain the same: After you select “Synchronize with PC’s time” or “Manual”, and click “Apply”, the selected mark will jump to this option.

2. User Management

IP CAMERA supports three different users, administrator, general user, and anonymous user.



a. Anonymous User Login:

Select “Yes”, then anyone access the camera can watch the live video without username and password. However, If you try to enter the configuration page, the camera will ask you to key in the username and passwork to log in.

Selec "No", then username and password are required to access the camera.

b. Universal Password:

Select “Yes”, then user is allowed to login this IPCam by universal password. Please refer to “Universal Password” chapter for the function explanation.

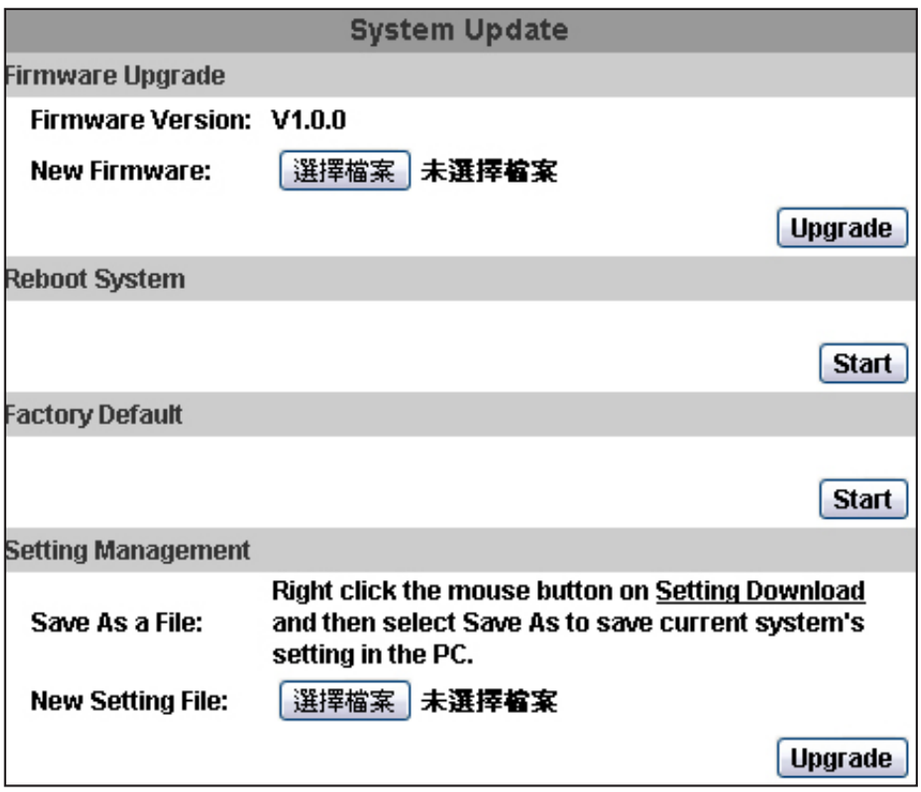
Select “No”, then the universal password function is disabled.

c. Add user:

Type the user name and password, then click “Add/Set”.The guest user can only browse the live video page and is not allowed to enter the configuration page.

d. Click “Edit” or “Remove” in the user list to modify them. The system will ask you to key in the password in the pop-up window before you edit the user information.

3. System update:



a. To update the firmware online, click “Browse…” to select the firmware. Then click “Upgrade” to proceed.
Note: The firmware upgrade might be accompanied by the changing of some setting and function, and the setting options might become different to the user manual that you're reading now.

b. Reboot system:re-start the IP camera

c. Factory default:delete all the settings in this IP camera.

d. Setting Management:User may download the current setting to PC, or upgrade from previous saved setting.

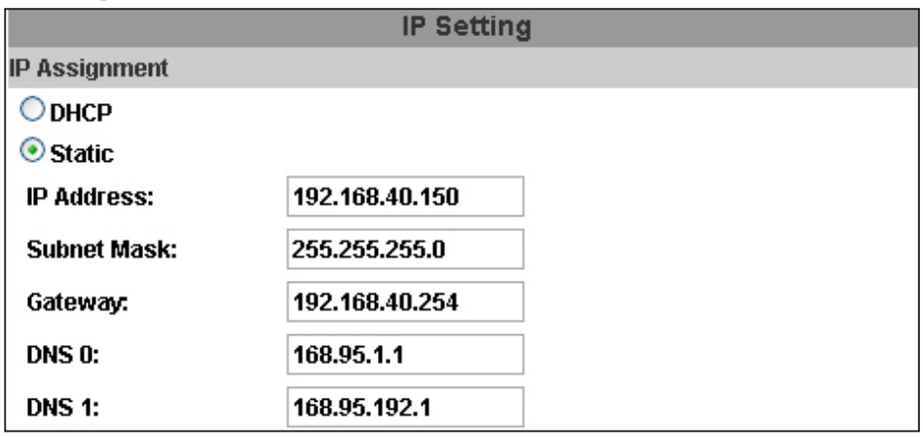
(i) Setting download:
Right-click the mouse button on Setting Download → Select “Save AS…” to save current IP CAM setting in PC → Select saving directory → Save

(ii) Upgrade from previous setting:
Browse → search previous setting → open → upgrade → Setting update confirm → click index.html. to return to main page

B. Network

1. IP Setting

a. IP Assignment

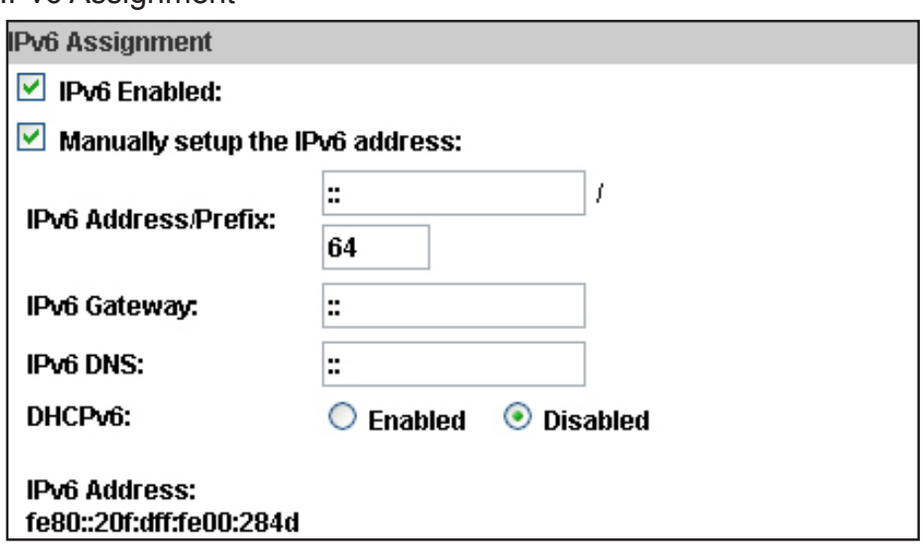


IP Camera supports DHCP and static IP.

(i) DHCP: Using DHCP, IP CAMERA will get all the network parameters automatically.

(ii) Static IP: Please type in IP address, subnet mask, gateway, and DNS manually.

b. IPv6 Assignment



IPv6 is a newer numbering system that provides a much larger address pool than IPv4, which accounts for most of today's Internet traffic. You can manually key in IPv6 address, enable DHCPv6, and use automatically generated IPv6 address simultaneously.

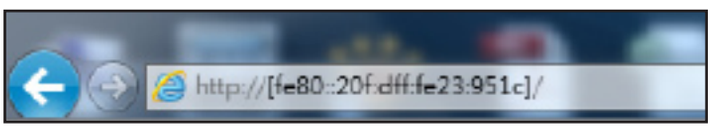
(i) Manually setup the IPv6 address: Key in Address, Gateway, and DNS.

(ii) DHCPv6: If you have a DHCPv6 server, enable it to assign the IPv6 automatically. The assigned IP address will be displayed beside the column.

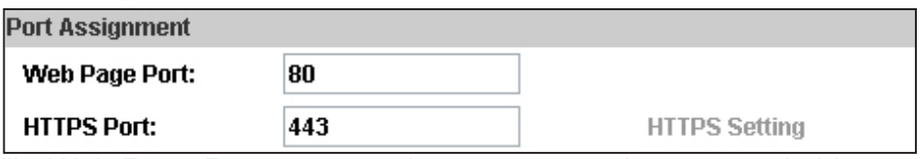
(iii) Automatically generated IPv6 Address: Here indicates a virtual IPv6

address generated automatically by IP camera. This virtual IPv6 address cannot use on WAN.

To use IPv6 address to access the IP camera, please open the web browser, and key in [IPv6 address] in address bar. The [ ] parentheses mark is necessary.



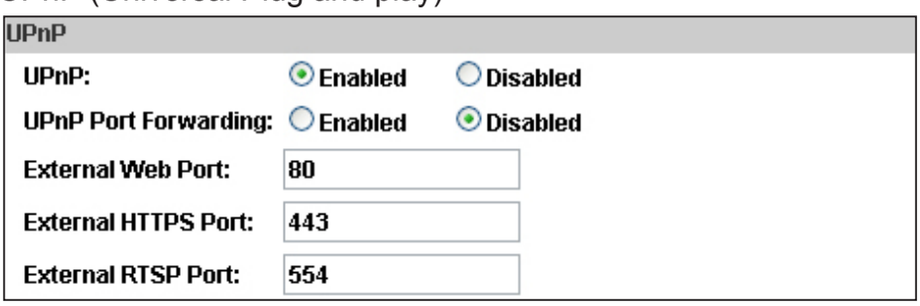
c. Port assignment



(i) Web Page Port: setup web page connecting port and video transmitting port (Default: 80)

(ii) HTTP Port:setup HTTPS connecting port (Default:443)

d. UPnP (Universal Plug and play)



This IP camera supports UPnP, If this service is enabled on your computer, the camera will automatically be detected and a new icon will be added to “My Network Places.”

(i) UPnP Port Forwarding:

When the camera is installed under a router, Enable UPnP Port Forwarding to let the router open ports so that the video streams can be sent out from a LAN. Set Web Port, Http Port, and RTSP port, and make sure your router supports UPnPTM and the function has been activated.

(ii) Note: UPnP must be enabled on your computer. Please follow the procedure to activate UPnP.

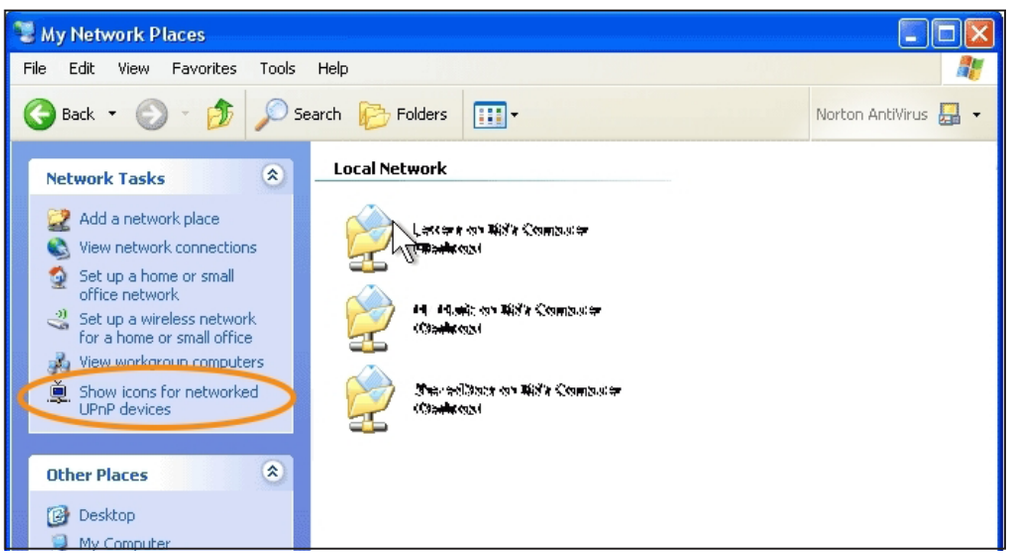
<Approach 1>

- Open the Control Panel from the Start Menu
- Select Add/Remove Programs
- Select Add/Remove Windows Components and open Networking Services section
- Click Details and select UPnP to setup the service

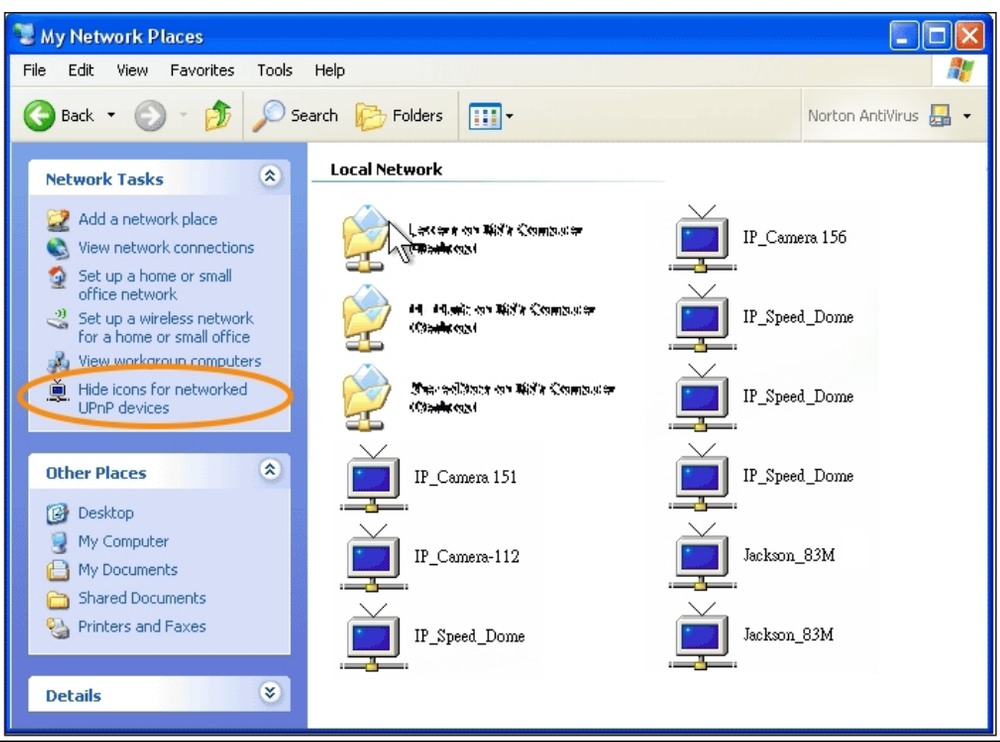
- The IP device icon will be added to “MY Network Places”
- User may double click the IP device icon to access IE browser

<Approach 2>

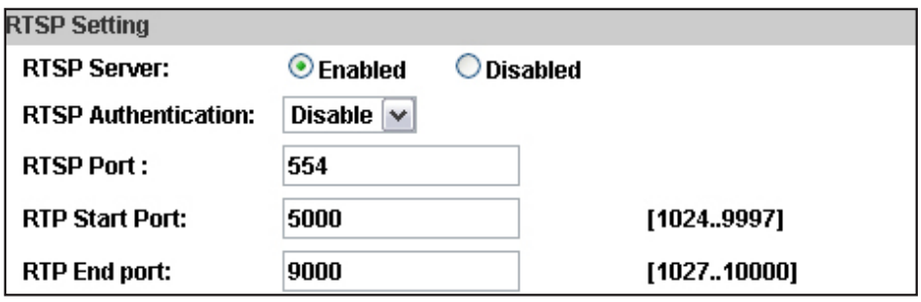
- Open "My Network Space", and click "Show icons for networked UPnP devises" in the tasks column on the left of the page. Windows may ask your confirmation for enabling the components. Click "Yes".


My Network Places
File Edit View Favorites Tools Help
Back Search Folders
Norton AntiVirus
Network Tasks
Add a network place
View network connections
Set up a home or small office network
Set up a wireless network for a home or small office
View workgroup computers
Show icons for networked UPnP devices
Other Places
Desktop
Local Network

- Now you can see the IP devise under the LAN. Double-click the icon to access the camera via web browser. To disable the UPnP, click "Hide icons for networked UPnP devises" in the tasks column.



e. RTSP setting



If you have a media player that supports RTSP protocal, you can use it to receive the video streaming from IP camera. The RTSP address can be set for two streamings respectively. Please jump to Chapter V-C:"Video Setting". There're setting field for RTSP address of two streamings.

(i) RTSP Server: enable or disable

(ii) RTSP Authentication:

"Disable" means everyone who knows your camera IP Address can link to your camera via RTSP. No username and password are required.

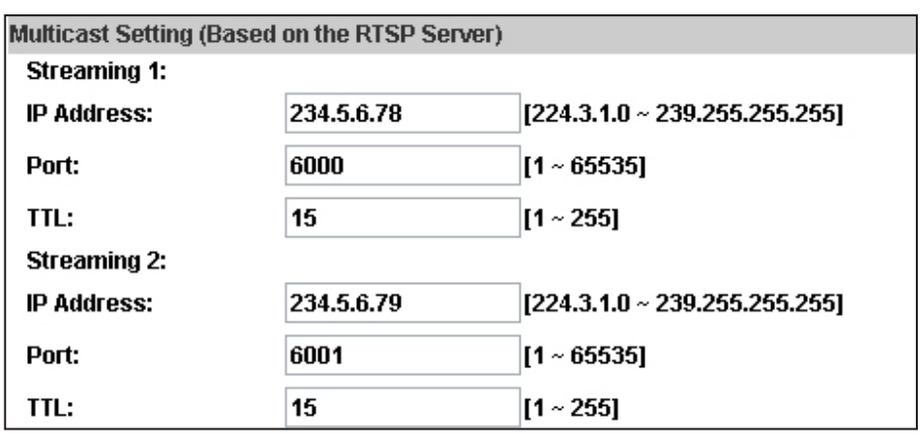
Under "Basic" and "Digest" authentication mode, the camera asks the user to give username and password before allows accessing. The password are transmitted as clear text under basic mode, which provides a lower level of security than under digest mode.

Make sure your media player supports the authenticaton schemes.

(iii) RTSP Port: setup port for RTSP transmitting (Default: 554)

(iv) RTSP Start and End Port: in RTSP mode, you may use TCP and UDP for connecting. TCP connection uses RTSP Port (554). UDP connection uses RTSP Start and End Port.

f. Multicast Setting (Based on the RTSP Server)

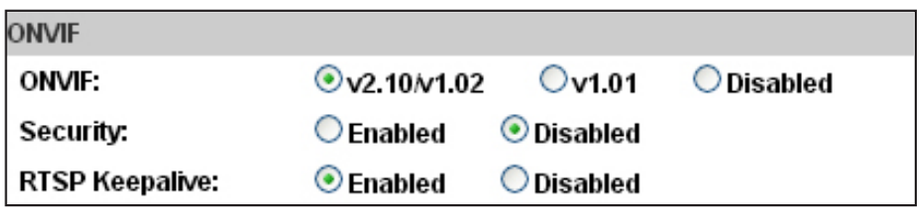


Multicast is a bandwidth conservation technology. This function allow several user to share the same packet sent from IP camera. To use

Multicast, appoint IP Address and port here. TTL means the life time of packet, The larger the value is, the more user can receive the packet.

To use Multicast, be sure to enable the function "Force Multicast RTP via RTSP" in your media player. Then key in the RTSP path of your camera: "rtsp://(IP address)/" to receive the multicast.

g. ONVIF



(i) Choose your ONVIF version and settings.

Under ONVIF connection, the video will be transmitted by RTSP. Be sure to enable the RTSP server in IP setting, or you're not able to receive the video via ONVIF.

(ii) Security:

Select "Disable", then the username and password are not required when accessing the camera via ONVIF. Select "Enable", then username and password are necessary.

(iii) RTSP Keepalive:

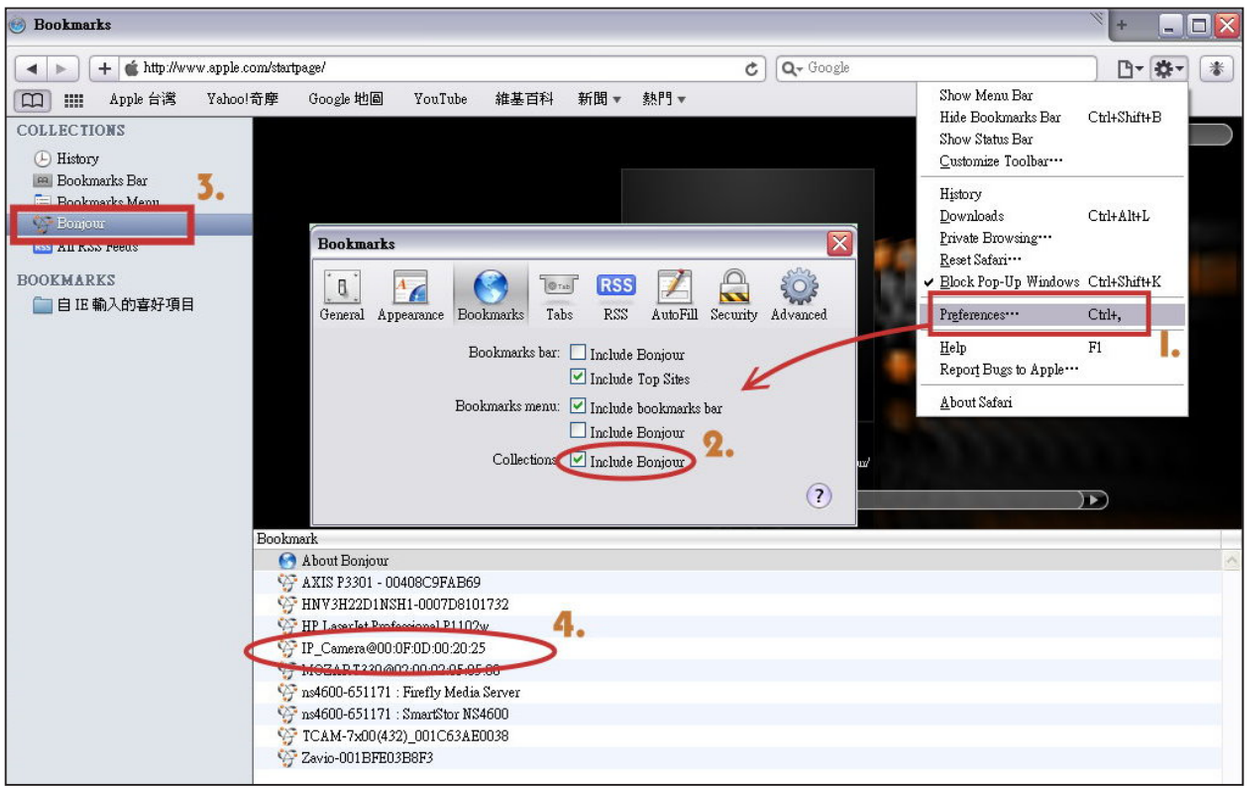
When the function is enabled, the camera checks once in a while if the user who links to the camera via ONVIF still keeps connecting. If the connection had been broken, the camera stop transmitting video to user.

h. Bonjour

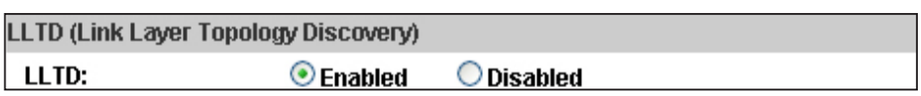
This function enable MAC systems to link to this IP camera. Key in the name here.

The web browser "Safari" also has Bonjour function. Tick "Include Bonjour" in the bookmark setting, and you can see the IP camera appearing under the bonjour category. Click the icon to connect the IP camera.

So far the Bonjour function on Safari browser doesn't support HTTPS protocol. If you select "https" mode for the camera, you can see the camera appearing on Safari's bookmarks but cannot access camera via it.



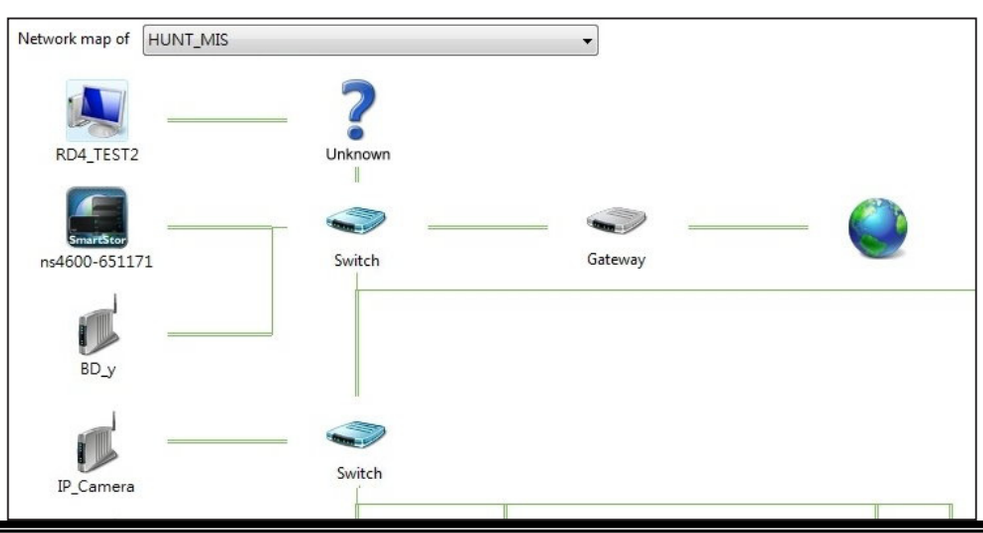
i. LLTD



If your PC supports LLTD, enable this function then you can check the connection status, properties, and device position(like IP address) of this IP Camera in the network map.

In the computer running Windows Vista or Windows 7, you can find LLTD through the path:

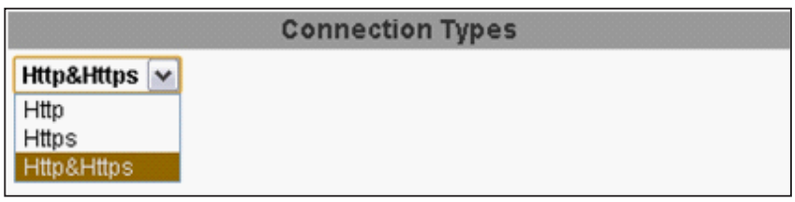
Call out the Control Panel → Network and Internet → Network and Sharing Center → Click "See full map".



2. Advanced

a. Https (Hypertext Transfer Protocol Secure)

When the users access cameras via Https protocol, the transmitted information will be encrypted so that the security level is arisen.

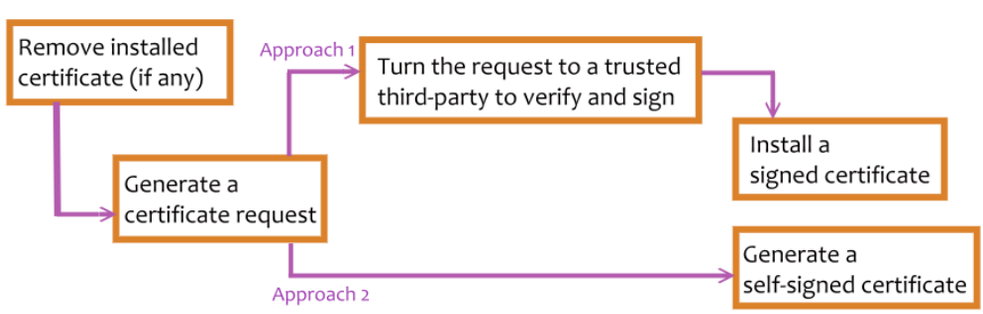


You can select the connection type.

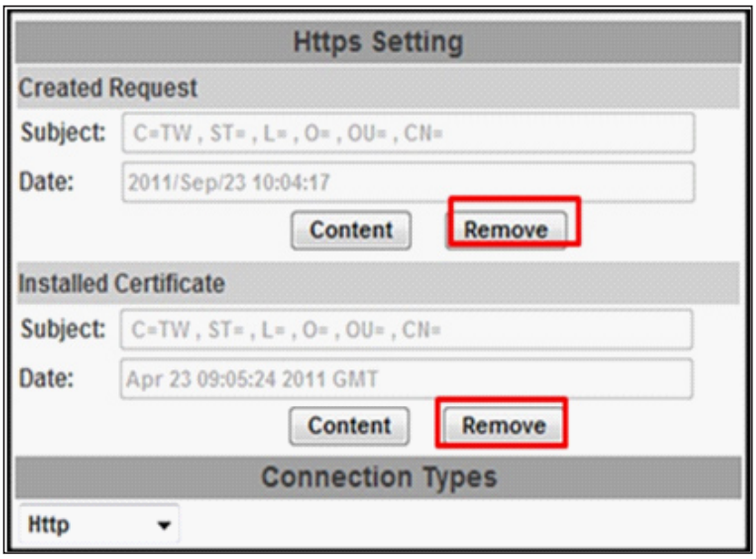
- Http: user can access the camera via Http path but cannot via Https path.
- Https: user can access the camera via Https path but cannot via Http path.
- Http & Https: Both the Http and Https path can be used to access the camera. When you change the setting of connection type, it may cause connection error or disconnection error if you switch the protocol directly. Therefore, Http & Https mode is necessary. If you want to change from Http to Https, please switch to “Http & Https” mode first, and then switch to “Https” mode. Vise versa.

Https protocol has certificate verifying mechanism. When the user access a website via Https, the browser will check the certificate of that domain and verify its trustiness and secure.

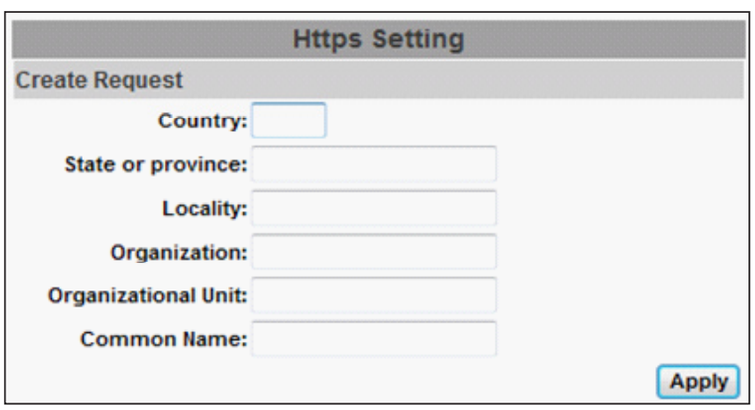
Certificate generation process:


Remove installed certificate (if any)
Approach 1
Turn the request to a trusted third-party to verify and sign
Install a signed certificate
Generate a certificate request
Generate a self-signed certificate
Approach 2

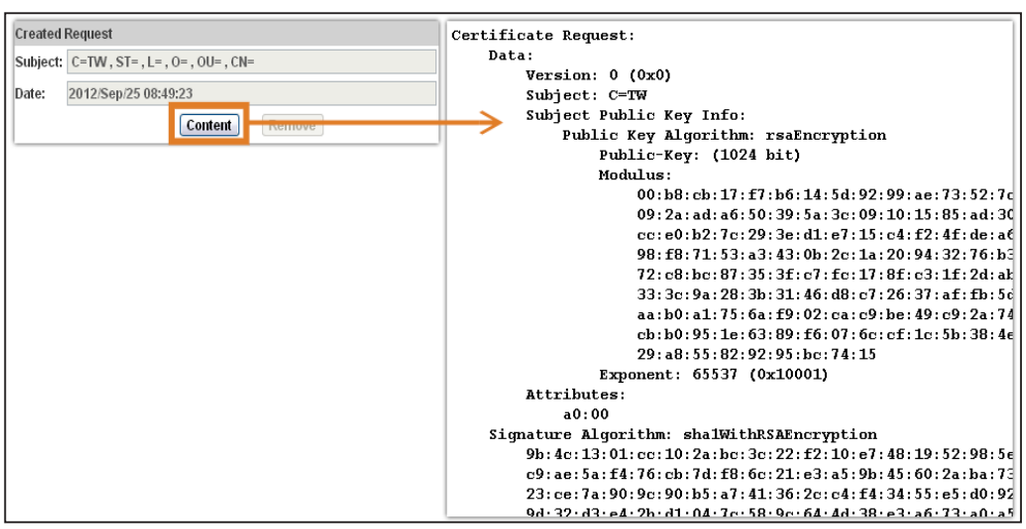
(i) Remove the existing certificate: Before you generate a new certificate, please remove installed one. Select "Http" connection type and click "Remove". If a dialog box pops up to ask you to confirm, click “Yes”.



(ii) Created Request: Fill in the following form and click “apply”.



(iii) After you generate a certificate request, if you choose to turn it to the trusted third-party to verify, please click “Content” and copy all the request content.

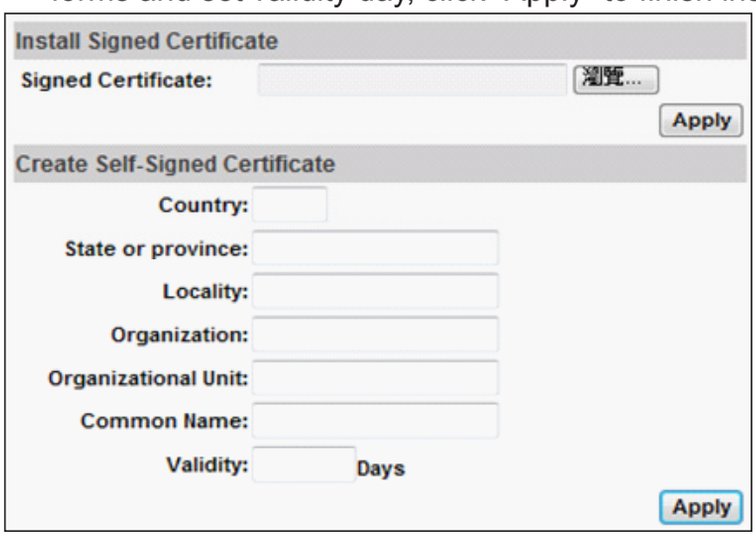


(iv) According to the certificate source, there are two ways to install the

certificate.

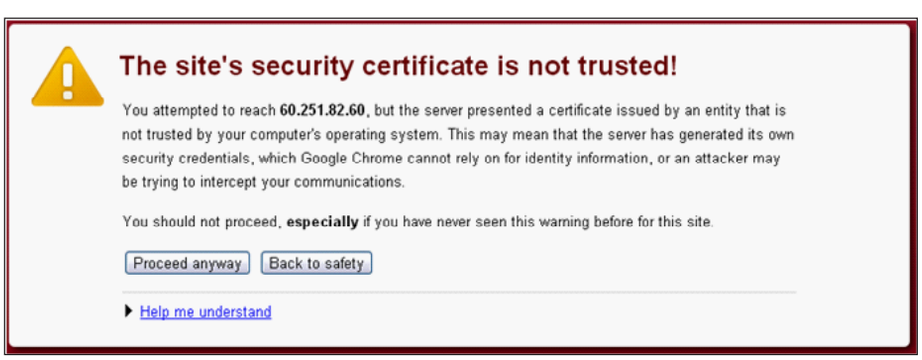
If you had sent the certificate request to do sign and received a signed certificate, please click" browse" and find the certificate file in your computer. Click "Apply" to install it.

If you choose to generate a self-signed certificate, fill in the following forms and set validity day, click "Apply" to finish installed it.



After finishing installation, you can click "Content" to call out and check the certificate content.

(v) To use Https to access camera, open your browser, and key in "https://(IP address)/" in the address bar. Now your data will be transmitted via encrypted communications, and the browser will check your certificate status. If it shows you a warning message:


The site's security certificate is not trusted!
You attempted to reach 60.251.82.60, but the server presented a certificate issued by an entity that is not trusted by your computer's operating system. This may mean that the server has generated its own security credentials, which Google Chrome cannot rely on for identity information, or an attacker may be trying to intercept your communications.
You should not proceed, especially if you have never seen this warning before for this site.
Proceed anyway
Back to safety
Help me understand

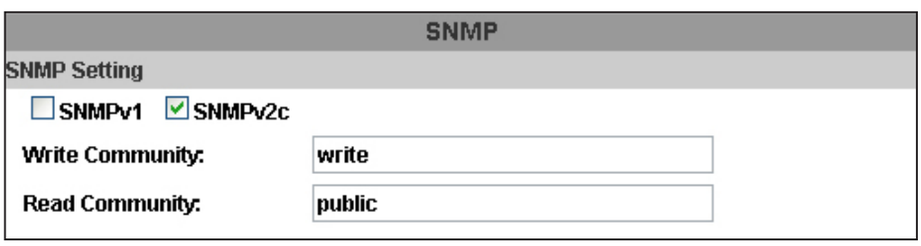
That means your certificate is self-signed or signed by distrusted institution. Click "Proceed anyway" and you can continue going to the camera page.

b. SNMP(Simple Network Management Protocol)

SNMP provides a simple framework for administering networked hardware. To manage the IP camera, you have to prepare a MIB browser or similar tools first. SNMPv1, SNMPv2c, and SNMPv3 can be enabled simultaneously.

The following examples are based on MG-SOFT MIB Browser. Depending on your MIS Browser, you may see different interface and options. Please refer to the user manual of your MIB Browser.

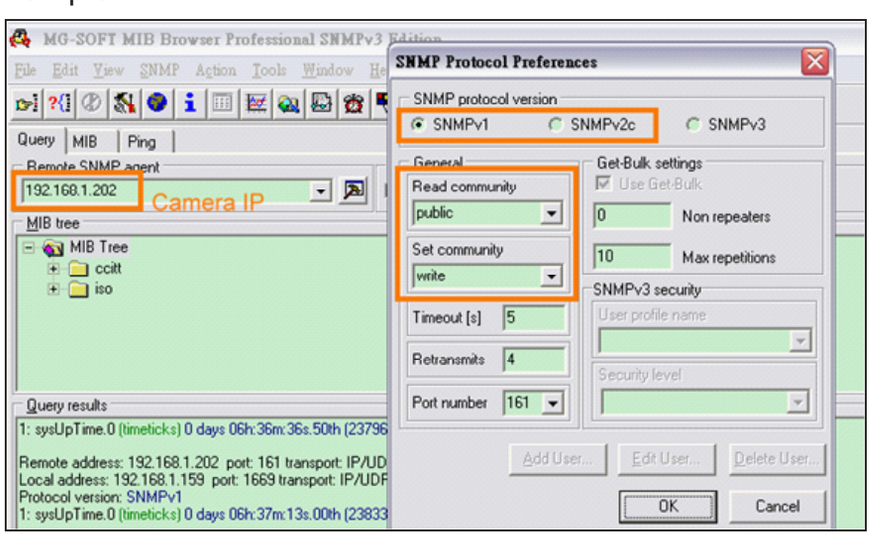
(i) SNMPv1 and SNMPv2:



The term "Community name" in SNMPv1 and SNMPv2c can be roughly regarded as key. The person who has the community name has the authority to read or edit the information of IP camera via SNMP.

Tick the box to enable SNMPv1 or SNMPv2c protocal, and specify the community name for write(read and write) and read(read-only). The user who use read community name to access the IP camera cannot modify any data of this camera. The community name can be any English characters and numbers, and must be shorter than 31 bits.

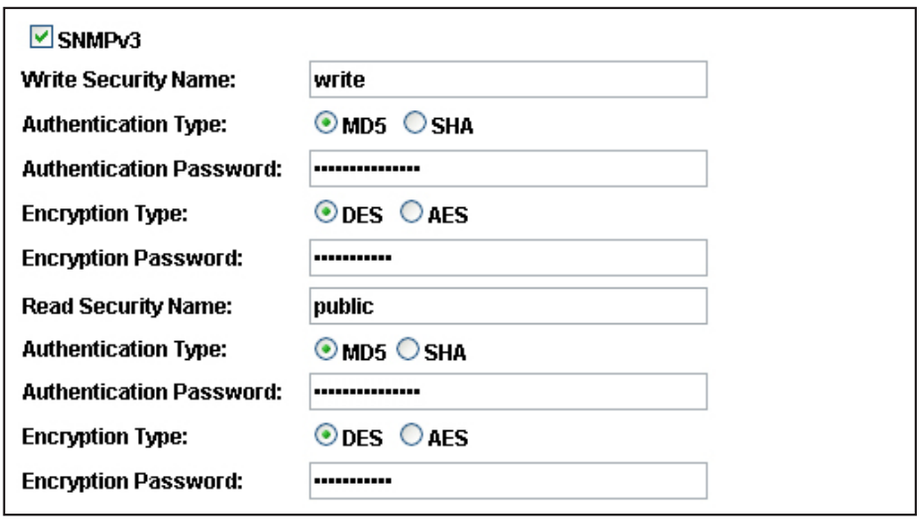
• Example:



Open the MIB Browser. Key in camera IP address(192.168.1.202), select SNMPv1 or SNMPv2, and key in the community name(Key in the

correct Read Community name “public”, the user has read authority to camera; Key in the correct Read Community name “public” and Key in the correct Set community name “write”, the user has write authority to camera.). Connection succeeds.

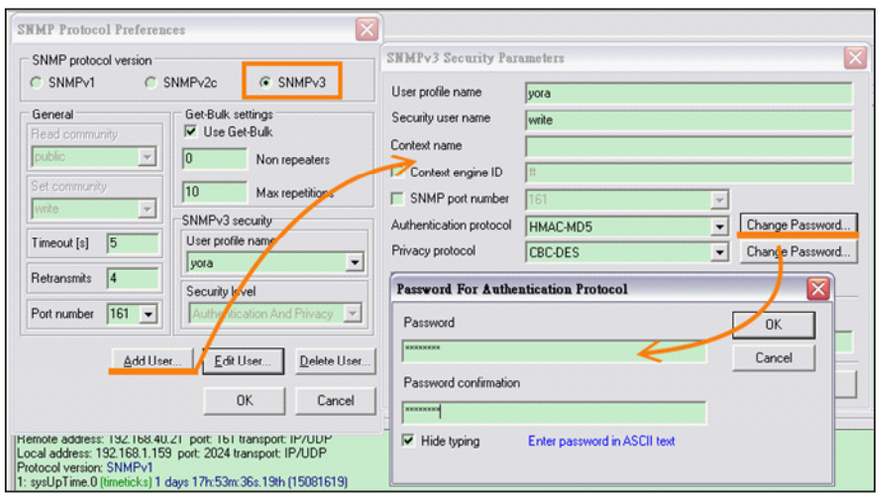
(ii) SNMPv3:



For data security reason, the authentication and encryption assurances are added when developing SNMPv3. The user has to give not only the security name(similar with "community name" in v1&v2c) but the password in order to access the IP camera. Please set security name, authentication type, authentication password, encryption type, encryption password of write and read respectively. The security name can be any English characters and numbers, and must be shorter than 31 bits. The password must be 8~64 bits in length.

Different from in SNMPv1 and v2c, the user have to create a account when using SNMPv3. In the account parameters, key in the security name and password you set in the camera to get accessing.

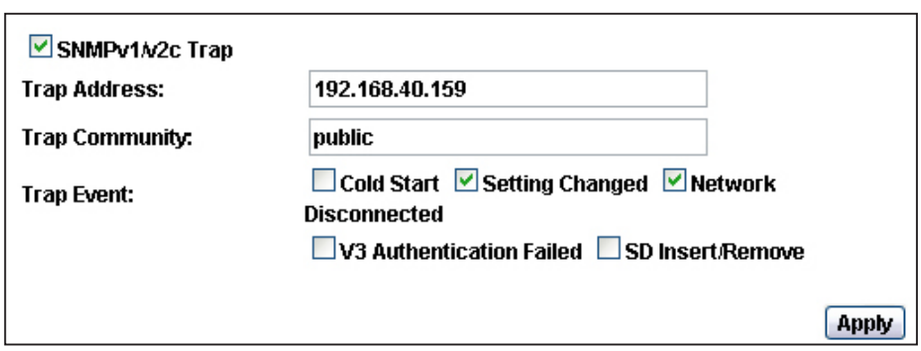
- Example:



Select SNMPv3, add new user, and key in correct security user name(write). Select the same authentication type with camera setting for authentication protocol(MD5), and key in authentication password of write security. Select the same encryption type with camera setting for privacy protocol (DES), and key in encryption password of write security. Click OK to add the user who has write authority to the camera. Connection succeeds.

If you want to add the new user who has read authority, key in correct security user name(public), key in authentication password of read security, and key in encryption password of read security.

(iii) SNMPv1/SNMPv2 Trap:

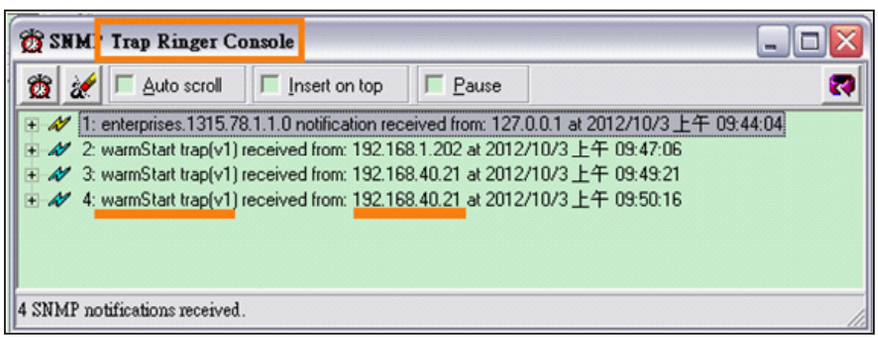


Trap is a mechanism that allows the a managed device to send messages to manager instead of waiting passively for polling from the manager. Specify the trap event. When those events happen, the camera will send the ring message to the Trap Address, which is usually the manager's IP address. Trap Community means the community that can receive the trap message.

Note: Trap Address must be under the same LAN with IP camera.

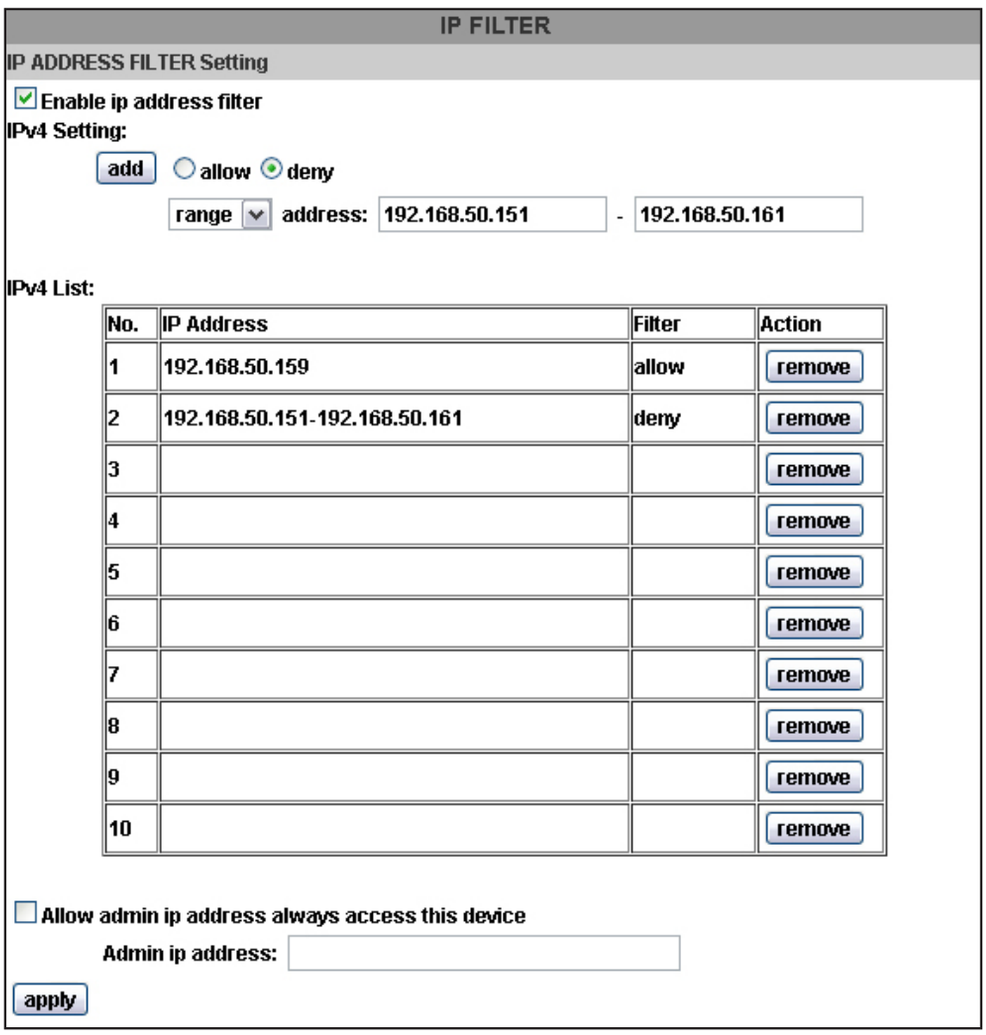
- Cold Start: The camera starts up or reboots.
- Setting changed: The SNMP setting is changed.
- Network Disconnected: The network connection was broken down. (The camera will send trap messages after the network being connected again)
- V3 Authentication Failed: A SNMPv3 user account tries to get authentication but failed. (Due to incorrect password or community)
- SD Insert / Remove: A Micro SD card is inserted or removed.

- Example:


Trap Ringer Console
Auto scroll
Insert on top
Pause
1: enterprises.1315.78.1.1.0 notification received from: 127.0.0.1 at 2012/10/3 上午 09:44:04
2: warmStart trap(v1) received from: 192.168.1.202 at 2012/10/3 上午 09:47:06
3: warmStart trap(v1) received from: 192.168.40.21 at 2012/10/3 上午 09:49:21
4: warmStart trap(v1) received from: 192.168.40.21 at 2012/10/3 上午 09:50:16
4 SNMP notifications received.

Open the MIB Browser. Use SNMPv1 or SNMPv2 to access the camera. When the SNMP setting is edited, Manager's MIB Browser(192.168.40.159) will receive the trap message of "setting change" from IP Camera (192.168.40.21).

c. Access List

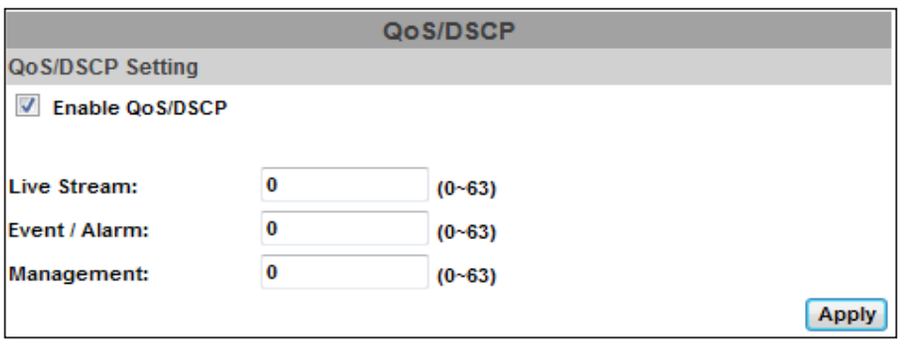


You can deny an IP address or a range of IP address so that they cannot access the IP camera. Tick the "enable" box, key in the IP address you want to deny, select"deny" then click"Add" to add it to the list.

You can also choose to deny a range of IP address but allow one or several IP address of them. Take the picture above for example, IP address 192.168.50.151~161 are not allowed to connect to the camera, but only 192.168.50.159 can access. Note: In the list "allow" condition must be ranked before "deny" condition. For example, if we exchange the sequence, set "Deny: 192.168.50.151~192.168.50.161" for the first item and "Allow: 192.168.50.159" for the second item in the list, the IP "192.168.50.159" turns out to be denied by the camera because the "deny" condition has the priority according to our ranking way.

As for those IP addresses not included in the list, the default is “allow”.

d. QoS/DSCP(Quality of Server/Differentiated Services Code-point)



DSCP specifies a simple mechanism for classifying and managing network traffic and provide QoS on IP networks. DSCP is a 6-bit in the IP header for packet classification purpose.

Set up instruction:

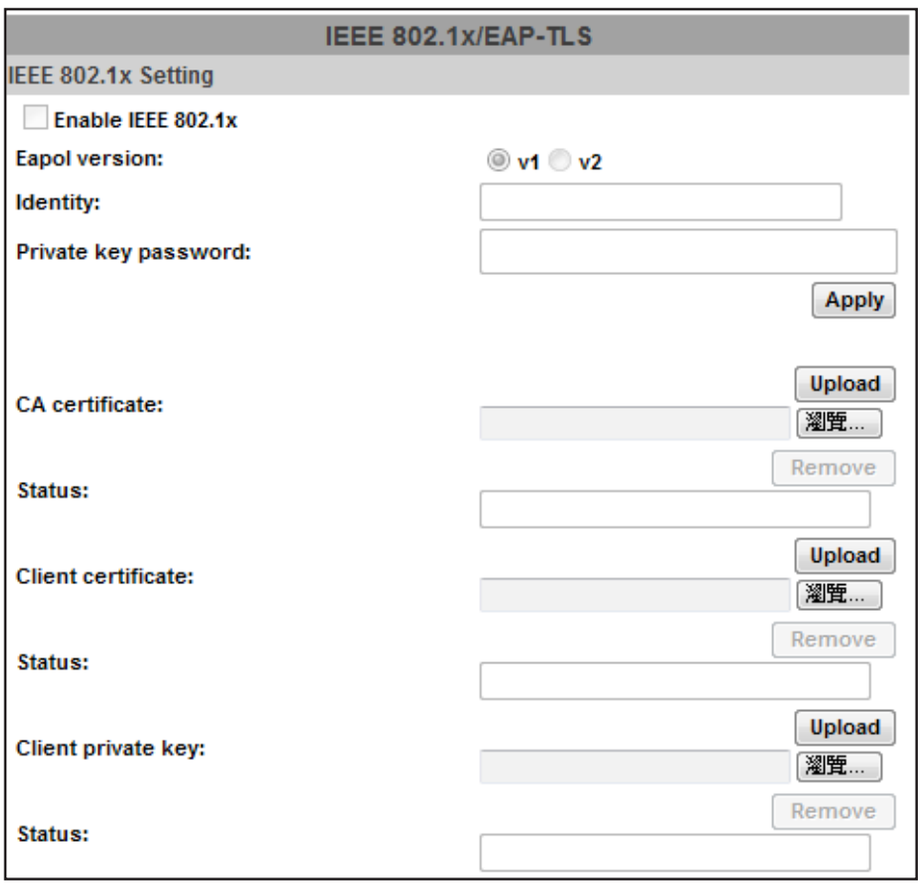
The number 0~63 for Live Stream, Event / Alarm, and Management represent the ratio that the bandwidth is divided. For example, if you set 5, 10, and 20 for the three items, then the bandwidth of the three item is 5:10:20. The item getting more bandwidth has lower probability to be delayed. There is no difference between setting "0, 0, 0" or "63, 63, 63" because under these two setting the three items will get equal bandwidth (1/3).

The three stream control the protocols respectively:

- Live Stream (Video and audio) : RTP / RTSP
- Event/Alarm : FTP / SMTP / SAMBA / SIP
- Management : HTTPS / HTTP / SNMP

Note: The "Management" stream handles both the live view and the setting area of the web page on which the data is transferred via http/https protocol. If you prefer to distribute more bandwidth when using the web browser to watch the live video, please adjust the Management Stream instead of Live Stream.

e. IEEE 802.1x



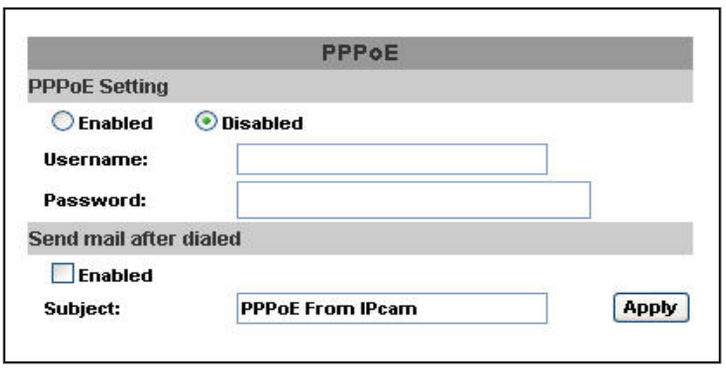
IEEE 802.1x is an IEEE standard for port-based Network Access Control. It provides an authentication mechanism to device wishing to attach to a LAN or WLAN. To use this function, you need a device to build IEEE 802.1x LAN at first.

The EAPOL protocol support service identification and optional point to point encryption over the local LAN segment.

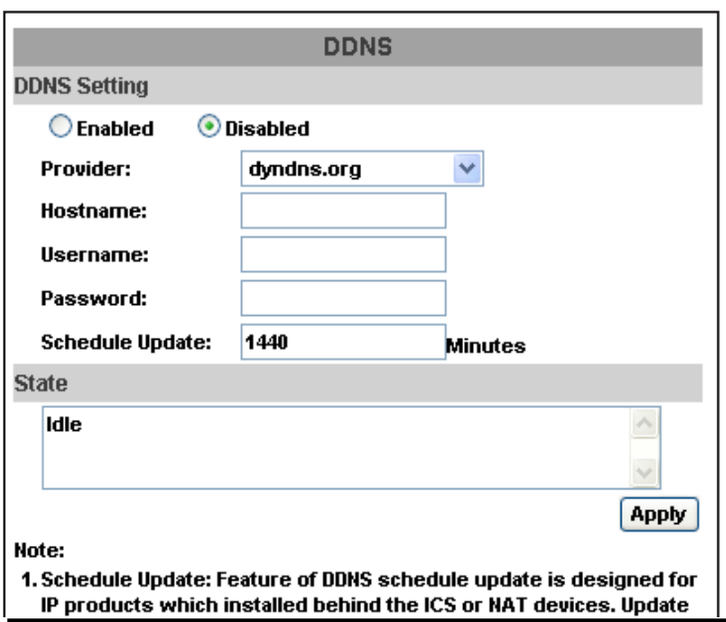
Please check what version of the authenticator and authentication server support. This camera supports EAP-TLS method. Please enter ID, password issued by the CA, then upload related certificates.

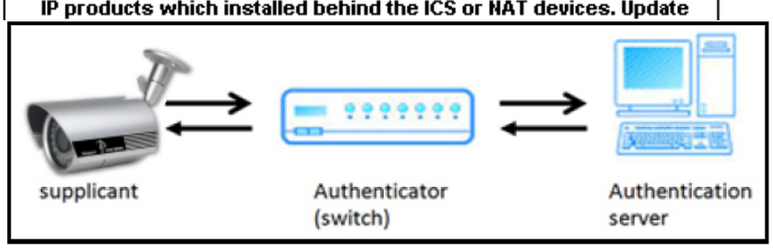
3. PPPoE & DDNS

a. PPPoE: Select “Enabled” to use PPPoE. Key-in Username and password for the ADSL connection. Send mail after dialed: When connect to the internet, it will send a mail to a specific mail account. For the mail setting, please refer to Server settings.



b. DDNS:





It supports DDNS (Dynamic DNS) service.

(i) Enable this service

(ii) Key-in the DynDNS server name, user name, and password.

(iii) Set up the IP Schedule update refreshing rate.

(iv) Click “Apply”

(v) If setting up IP schedule update too frequently, the IP may be blocked.

In general, schedule update every day (1440 minutes) is recommended

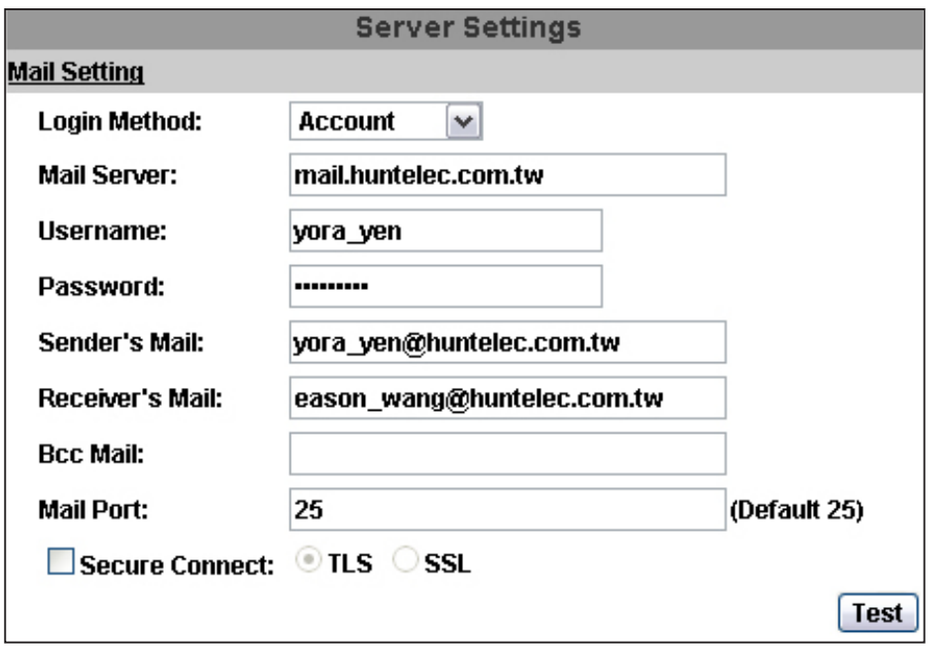
(vi) DDNS Status

- Updating: Information update
- Idle: Stop service
- DDNS registration successful, can now log by http://<username>.ddns.camddns.com: Register successfully.
- Update Failed, the name is already registered: The user name has already been used. Please change it.
- Update Failed, please check your internet connection: Network connection failed.
- Update Failed, please check the account information you provide: The server, user name, and password may be wrong.

4. Server setting

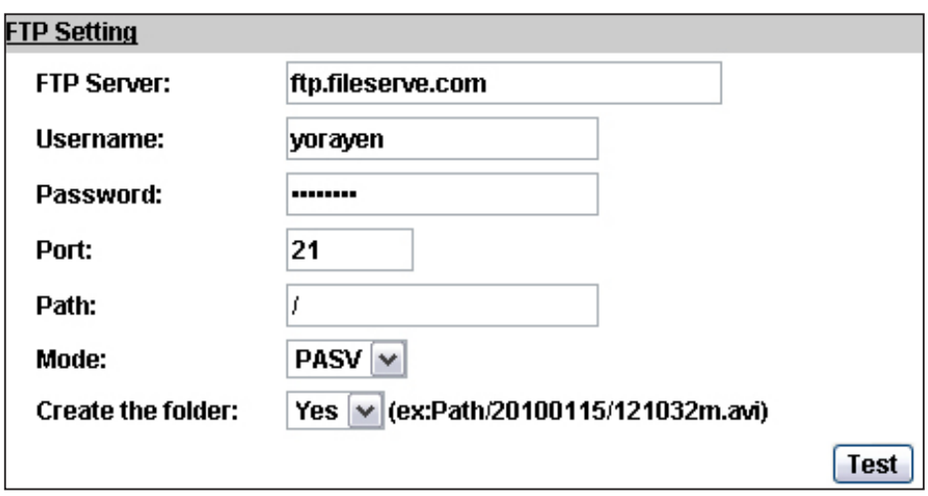
The settings of Email, FTP and SAMBA are used when the event happens, schedule snapshot executes, or the alarm input is triggered. Select the item to display the detailed configuration options. You can configure either one or all of them.

a. Mail Setting:



Set up the server address and account information of your e-mail. Click “Apply” to save the setting, then use “Test” botton to test the server connection. A message box will tell you “OK!” if it works, and a test e-mail will be sent to receiver’s mail address.

b. FTP:

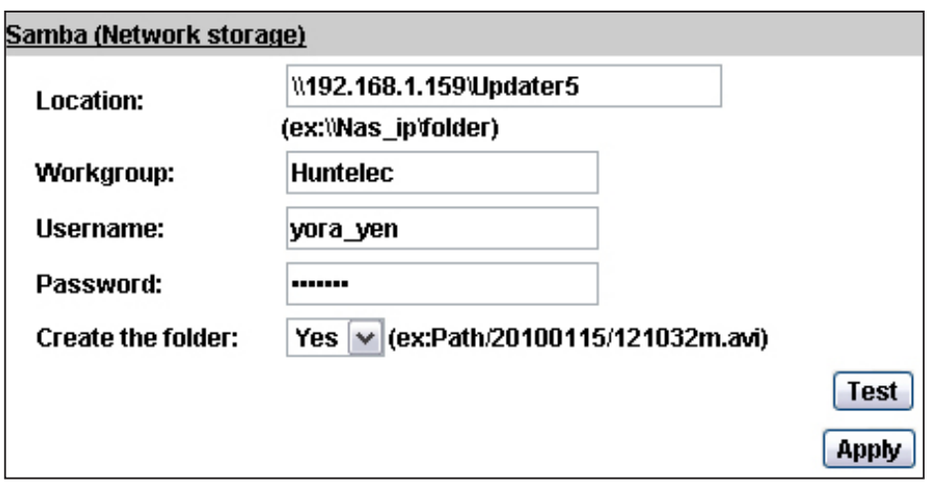


Set up the server address and account information of your FTP. Click “Apply” to save the setting, then use “Test” botton to test the server

connection. A message box will tell you “OK!” if it works, and a test file will be uploaded to FTP space.

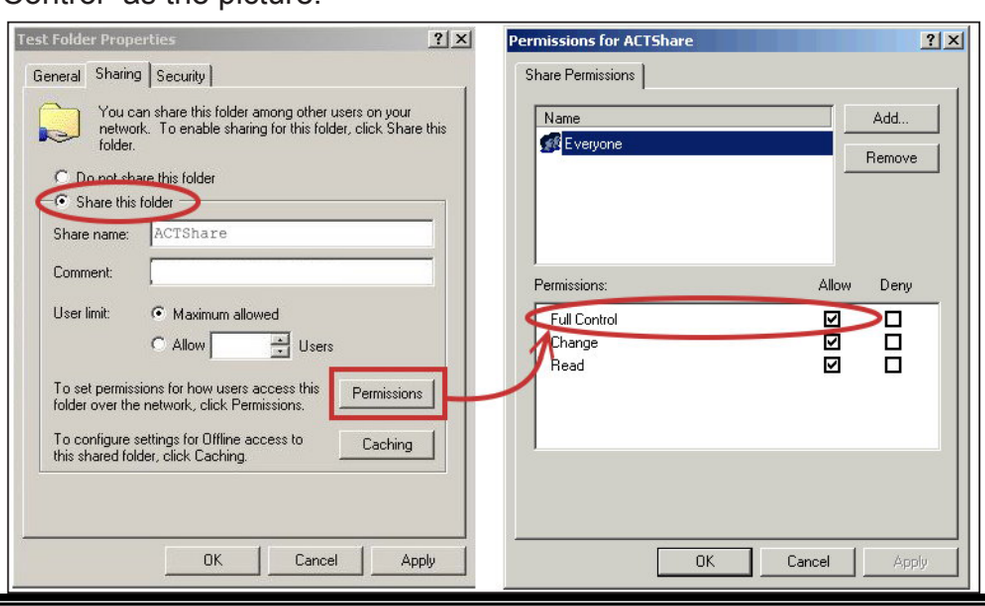
In PORT mode, the FTP server builds the connection to the user's data port actively. However, from the user-side firewall's standpoint, the action of connecting from FTP server is often considered to be dangerous and should be blocked. In PASV mode, the problem is solved: The FTP server waits for the data transmission connection built by the user. Make sure that the server supports the mode you select.

c. Samba:



Select this option to send the media files via a network neighborhood when an event is triggered. Click “Apply” to save the setting, then use “Test” botton to test the server connection. A message box will tell you “OK!” if it works, and a test document will be created in the location.

If the test failed, check the sharing setting of your location folder. The folder properties must be “shared” and the permissions must be “Full Control” as the picture.



C. A/V Setting

1. Image Setting

For the security and privacy purpose, there are three areas can be setup for privacy mask. Click Area button first and drag an area on the above image, and remember to save your setting. The masked area will not show on both the live view and recording.

Please refer to the details below for Image setting:

a. Brightness, Contrast, Hue, Saturation, Sharpness can be adjusted here.

b. AGC: Automatic gain control. The sensitivity of camera can adjusts with the environmental light. Enable this function and the brighter image can be got

under dim light, but the level of noise may also increase.

c. Shutter Time: Choose as the location of your camera or fixed shutter time. The shorter the shutter time is, the less light the camera receives and the image becomes darker.

d. Sense-Up: This function increases the sensitivity of camera to get brighter image at night. The smaller the value you select, the slower the shutter speed becomes so that the image will get brighter, and moving subjects might be blurred.

Sense-Up option is only enabled when users select "outdoor" or "indoor" in shutter time option.

e. D-WDR: Digital wide dynamic range. This funtion enables the camera to reduce the contrast in the view to avoid the dark zones resulting from over and under exposure.

f. Video Orientation: Flip or mirror the image as your requirement.

g. Day & Night: The camera can detect the light level of environment. If you select "Light Sensor Mode", the image will be turned to black and white at night in order to keep clear. Appoint a lux stantard of switching D/N. The current lux here is for reference. Under "Times Mode" the switch time of Color / Black and white is according to the given time. Under "Sychronize with DI" mode, the image will be turned to black and white when the camera receives triggering from DI. You can also control it by choosing "Color" or "B/W".

h. White Balance: Enhance red / blue color in the image.

i. DNR: Digital noise reduction. This function is able to filter the noise and blur from the image and show a clearer view. Select the DNR extent.

Note: When you select a number in "Shutter Time", actually the shutter time varies in a range and controlled by camera automatically. Following table shows the shutter time option and corresponding range.

Option	Shutter Time Range (sec.)
Outdoor	1/10000 ~ Selected number in "Sense-up"
Indoor	NTSC: 1/125 ~ Selected number in "Sense-up" PAL: 1/100 ~ Selected number in "Sense-up"
1/30	1/10000 ~ 1/30
1/50	1/10000 ~ 1/50
1/60	1/10000 ~ 1/60
1/100	1/10000 ~ 1/100
1/125	1/10000 ~ 1/125
1/250	1/10000 ~ 1/250
1/500	1/10000 ~ 1/500
1/1000	1/10000 ~ 1/1000
* Sense-up options: 1/30, 1/15, 1/10, 1/5	

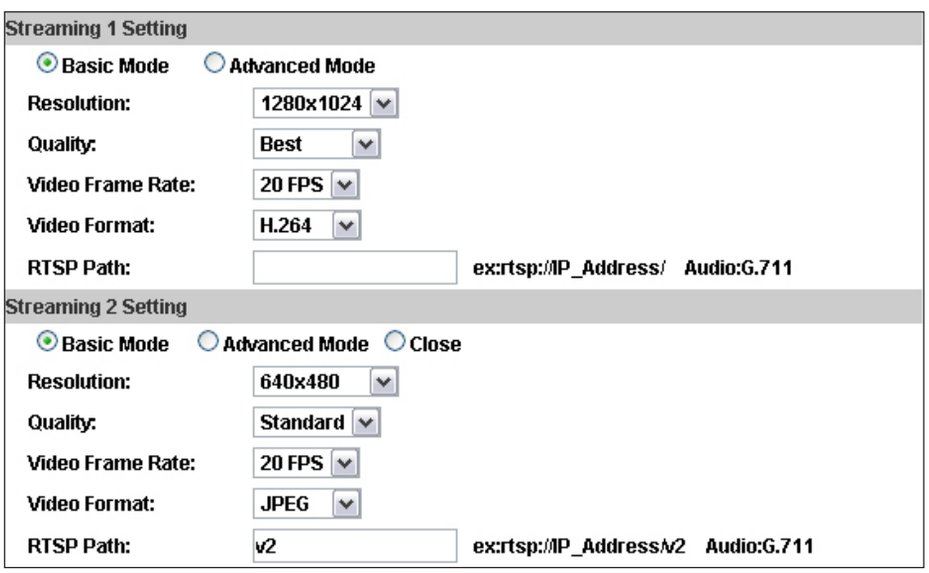
2. Video Setting

ideo System Setting:

Choose the input resolution, the option affects the max value of video frame rate.

Choose the Video System, NTSC or PAL.

a. Basic Mode of Streaming 1 and Streaming 2:



(i) Resolution: If “1280x1024 @20fps” is selected in Input Resolution option, you can select 1280x1024, 640x480, 320x240,or 176x144 here. If “1280x800 @30fps” is selected in Input Resolution, you can select 1280x800, 1280x720, 640x480, 320x240, or 176x144 here.

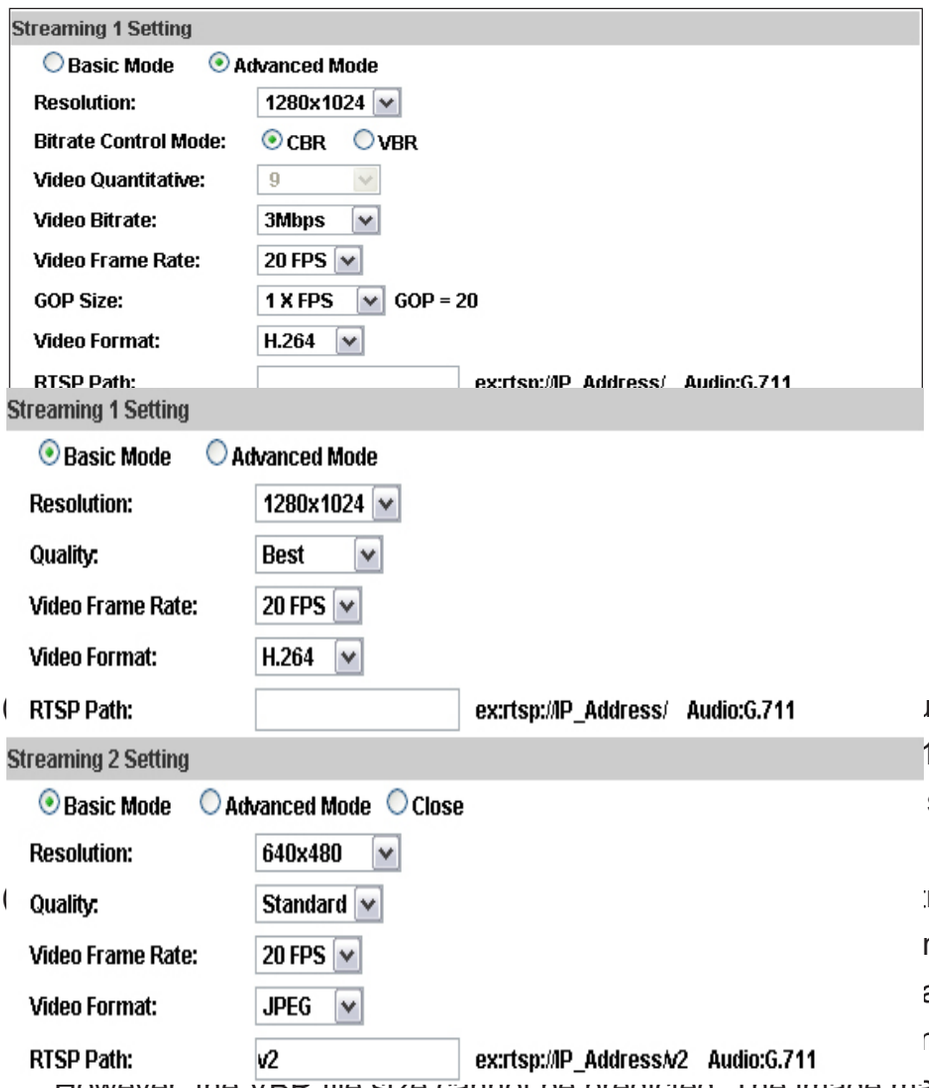
(ii) Quality: The higher the quality is, the bigger the file size is. It might affect Internet transmitting speed if the file gets too large.

(iii) Video Frame Rate: The video refreshing rate per second. The max value is affected by the input resolution you choose.

(iv) Video Format: H.264, MPEG4, or M-JPEG

(v) RTSP Path: Set the RTSP output connecting route.

b. Advanced Mode of Streaming 1 and Streaming 2:



ution
144 here.
select
rate
mode,
a.
maller.

However, the VBR file size cannot be predicted. The image may become broken or lagged when your bandwidth is not enough for the data quantity you selected.

(iii) Video Quantitative: The quality parameter of VBR. You can choose 1~10 compression rate. The higher the value is, the higher the image quality is.

(iv) Video Bitrate: The quality parameter of CBR. You can choose 32kbps ~10Mbps. The higher the value is, the higher the image quality is.

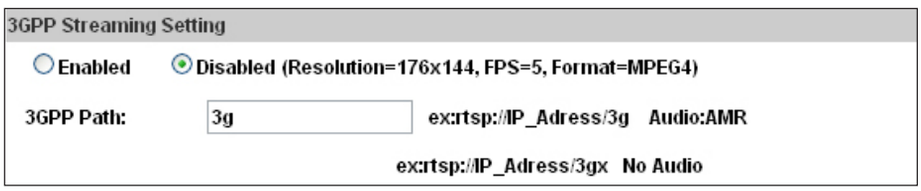
(v) Video Frame Rate: The video refreshing rate per second. The max value is affected by the input resolution you choose.

(vi) GOP Size: It means “Group of Pictures”. The higher the GOP is, the better the quality is.

(vii) Video Format: H.264, MPEG4, or M-JPEG

(viii) RTSP Path: RTSP output connecting route.

c. 3GPP Streaming mode:



To receive video via 3gpp, please remember to enable rtsp server in the "IP Setting" page.

3GPP mode fixed setting: 176x144 resolution, 5FPS, Video compression: MPEG4, Audio compression: AMR.

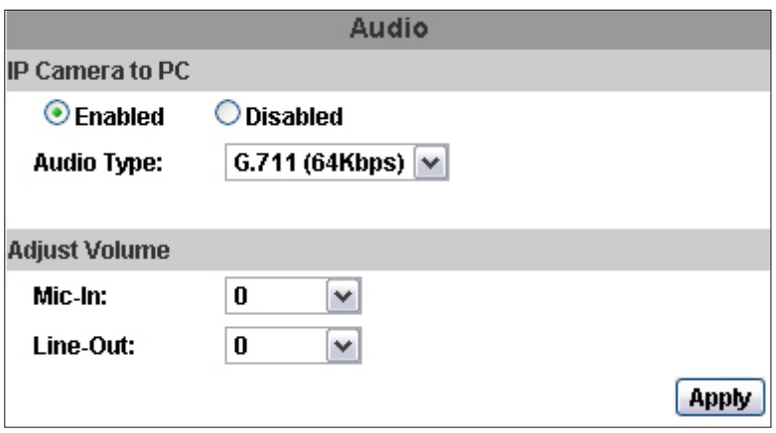
(i) Enable or Disable 3GPP Streaming

(ii) 3GPP Path: 3GPP output connecting route. If the IP address of your camera is 192.168.40.150, and you key in "3g" in the column, the 3GPP path will be rtsp://192.168.40.150/3g.

3. Audio:

IP Camera supports 2-way audio. Audio can be received by the built-in microphone and transmitted to remote PC. User can also send audio from remote PC mic to IP Camera's external speaker.

a. IP Camera to PC



To receive Audio from IP camera, select "Enable" to start this function. The Audio compression format can be choosed from 3 options. You can also adjust the volume of 2-way audio.

b. PC to IP Camera

Tick "chatting" box in the browsing page, then your voice can be propagated from PC to camera.

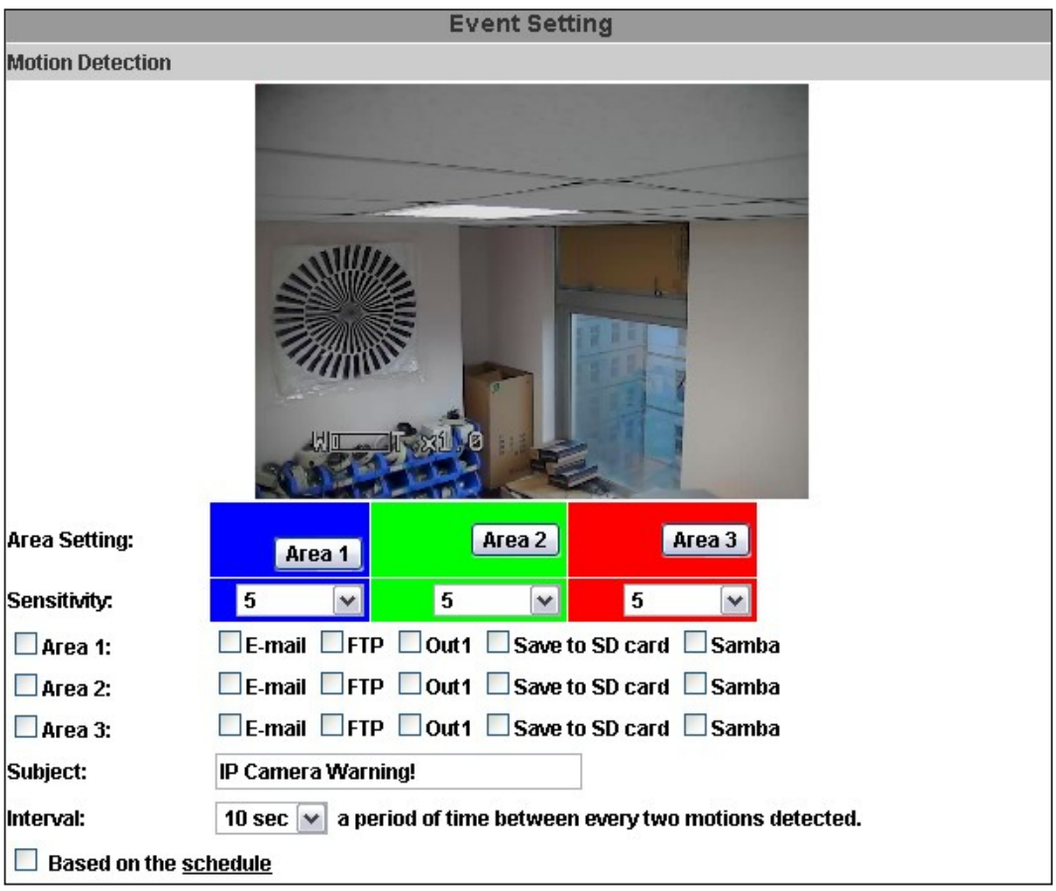
If "Chatting" and "Save to SD card" are enabled simultaneously, the sound quaily might be affected and becomes not smooth.

D. Event List

IP Camera provides multiple event settings.

1. Event Setting

   a. Motion Detection



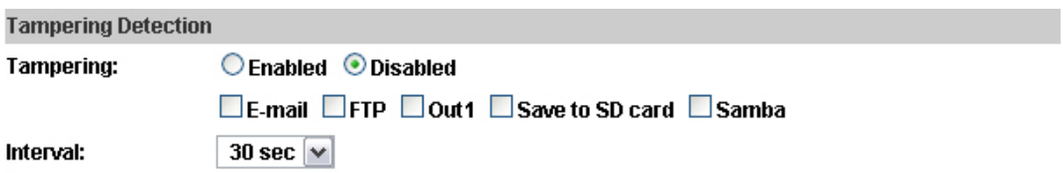
To enable motion detection, please tick "Area 1/2/3". Click "Area 1/2/3" in Area Setting, and draw an area on the preview screen. When motion in the area is detected, "Motion!" word will be marked on the live screen, and the camera can send video or snapshot to specific mail addresses, trigger the output devise, or save video to FTP/ Micro SD card/ Samba.

If you select "save to SD card", the video or sanpshot will be saved to Micro SD card. If you also tick E-mail/ FTP/ Samba of "Log" option, the motion detection log will be sent to E-mail/ FTP/ Samba simultaneously.

- Intervel:
  For example, if you select "10 sec" here, once the motion is detected and action is triggered, it cannot be triggered again within 10 seconds.
- Based on the schedule:
  When the option box is ticked, only during the selected schedule time the motion detection is enabled. That is, for example, the 11th hour of

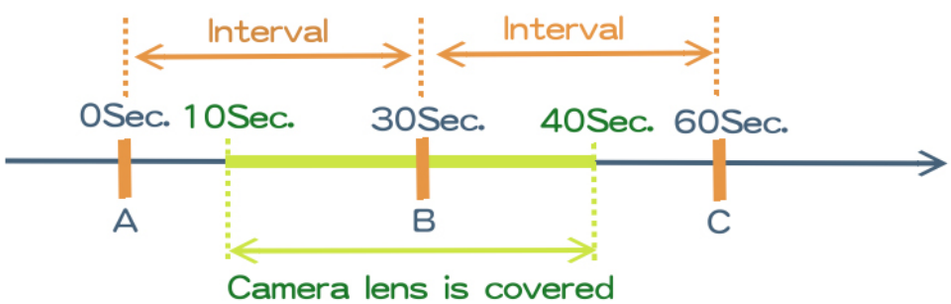
Monday has not been colored in the schedule table, then no action will be triggered even the camera detects motion during 11:00~12:00 on Monday.

b. Tampering Detection

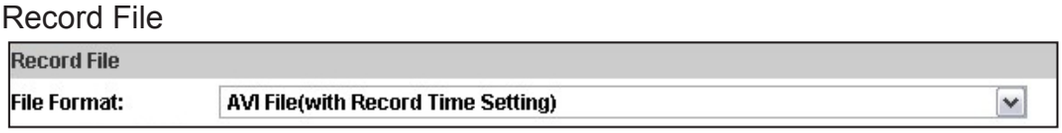


When the camera view is covered, moved, shot by strong light, or out of focus, the tampering detection will be triggered, and send snapshot or video to mail/FTP/Samba/SD card, or trigger the external alarm. Please select the alarm action.

- Interval: The tampering detecting interval. Take the diagram for example, we set interval as 30 second, and the camera lens is covered during 10-40 sec. At timepoint B, the camera compare the view with timepoint A, and send alarm when it found that the lens is covered. At timepoint C, the camera compare the view with timepoint B, and send alarm when it found that the lens is uncovered.



c. Record File



When a event happens, the IP camera can record a video clip or take snapshot, and then send to mail/ FTP/ Samba. Select what format you want to save.

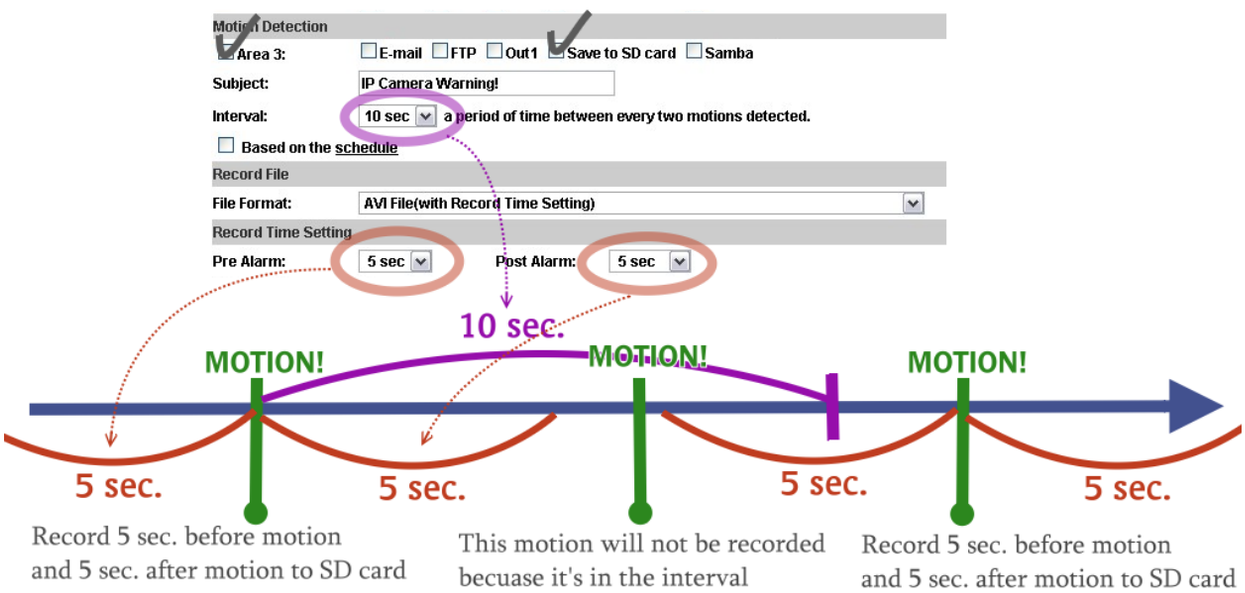
- AVI File (with Record Time Setting): Save AVI video file. The video length is according to the value you set in Record Time Setting.
- JPEG File (Single File with Interval Setting): Save single JPEG picture file when event happens.
- JPEG Files (with Record Time Setting): Only when you select "JPEG" in streaming 1 video format of Video Setting, this option can be enabled.

Select this option to save several JPEG picture files, and the successive picture files cover a period of time according to the value you set in Record Time Setting.

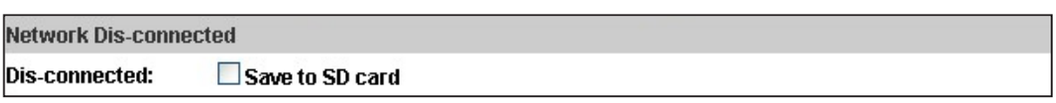
d. Record Time Setting

When a event happens, the IP camera can record a video clip or take snapshot, and then send to mail/ FTP/ Samba. Select the video recording length before and after event happens.

- Diagram example of "Interval" and "Pre/ Post Alarm":



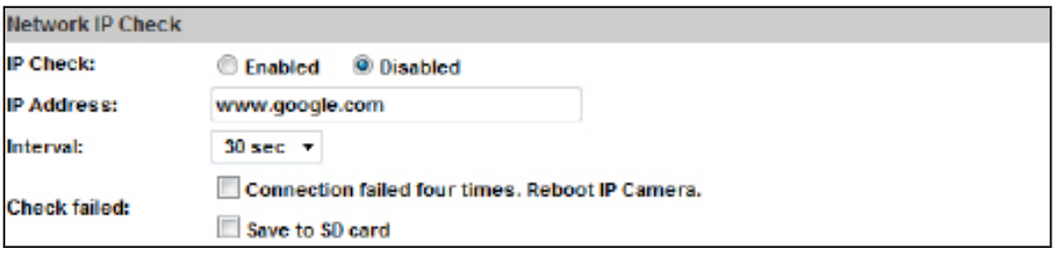
e. Network Dis-connected



To avoid video loss, the camera will start to save the video to local Micro SD card when it detect Ethernet cable is unplugged. The video recording will continuously be saved into Micro SD card and divided into every 5 minutes a file until the network is reconnected successfully. The oldest file will be deleted if the capacity of Micro SD card is full.

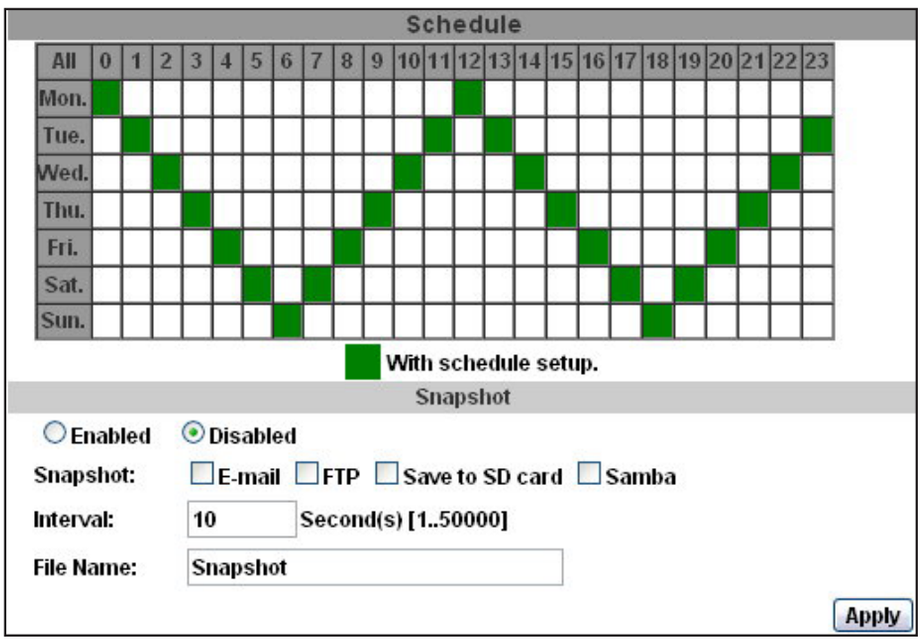
This function is only enabled under wire connection.

f. Network IP check



The same with "Network Dis-connected" function, Network IP chech is designed for avoiding video loss. Even when the Ethernet cable is plugged, the network might be sometimes not stable. Key in the target IP address and interval. The camera checks once in a while according to the setting interval time that if itself can access the target IP address. If PIN failed, the camera can start saving the video to Micro SD card. If PIN failed four time successively, the camera can reboot itself.

2. Schedule

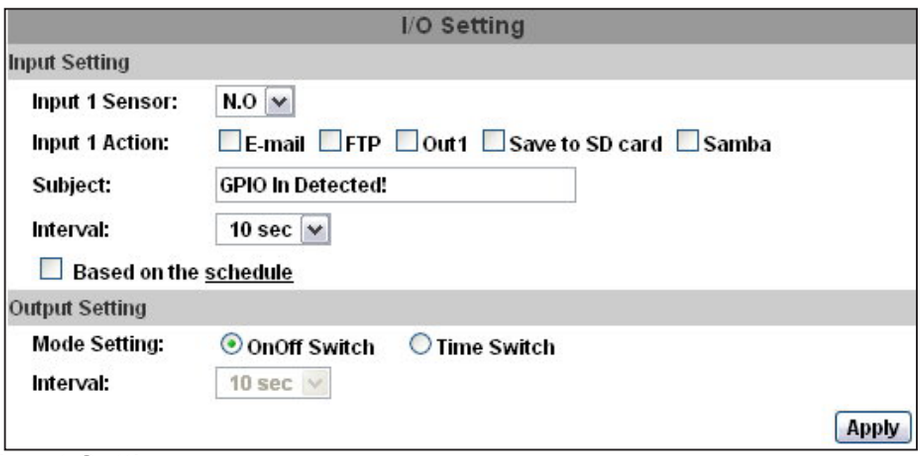


a. Schedule: After complete the schedule setup, the camera data will be recorded according to the schedule setup.

b. Snapshot: After enable the snapshot function, user can select the storage position of snapshot file, the interval time of snapshot and the reserved file name of snapshot.

c. Interval: The interval between two snapshots.

3. I/O Setting



a. Input Setting:

IP Camera supports input and output. When the input condition is triggered, it can trigger the relay out, send the video to mail addresses /FTP server / SAMBA.

- Intervel:

  For example, if you select "10 sec" here, once the input alarm is detected and action is triggered, it cannot be triggered again within 10 seconds.

- Based on the schedule:

  When the option box is ticked, only during the selected schedule time the I/O is enabled. That is, for example, the 11th hour of Monday has not been colored in the schedule table, then no action will be triggered even the camera detects input signal during 11:00~12:00 on Monday.

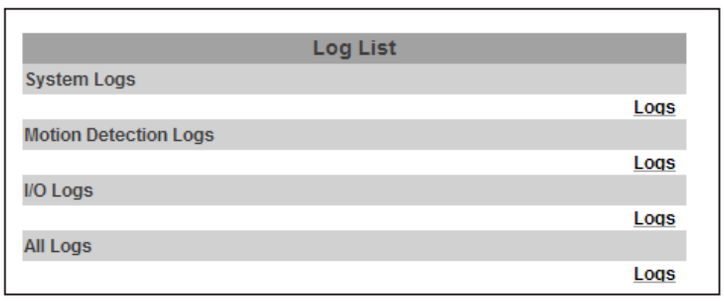
b. Output Setting:

The output mode affect the DO or relay out duration.

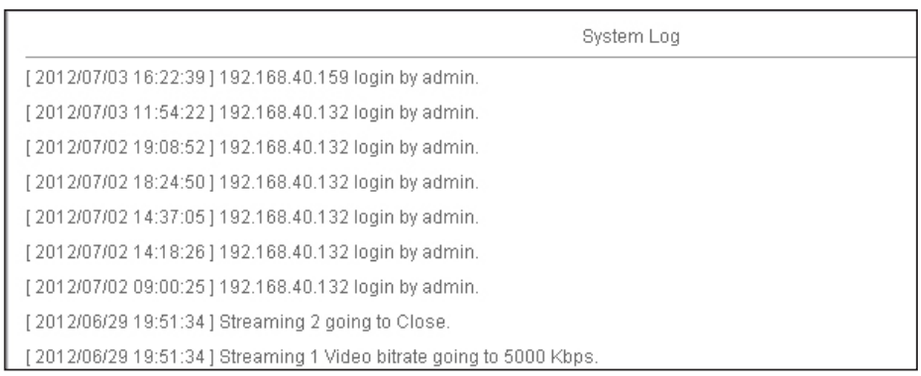
(i) OnOff Switch: The camera triggers the external devise and lasts for certain of time according to the event "interval" setting. If it's triggered by motion detection, the triggering time is according to "interval" setting of motion detection. If it's triggered by external input alarm, the triggering time is according to input "interval" setting. It triggers the external devise and lasts for 10 seconds if you select "10" in interval setting. You can turn off the alarm manually by click "off" at the right bottom of the live video page.

(ii) Time Switch: The camera triggers the external devise and lasts for certain of time according to the output "interval" setting, and the user is not allowed to break off the alarm manually.

4. Log List



Sort by System Logs, Motion Detection Logs and I/O Logs. In addition, System Logs and I/O Logs won't lose data due to power failure.

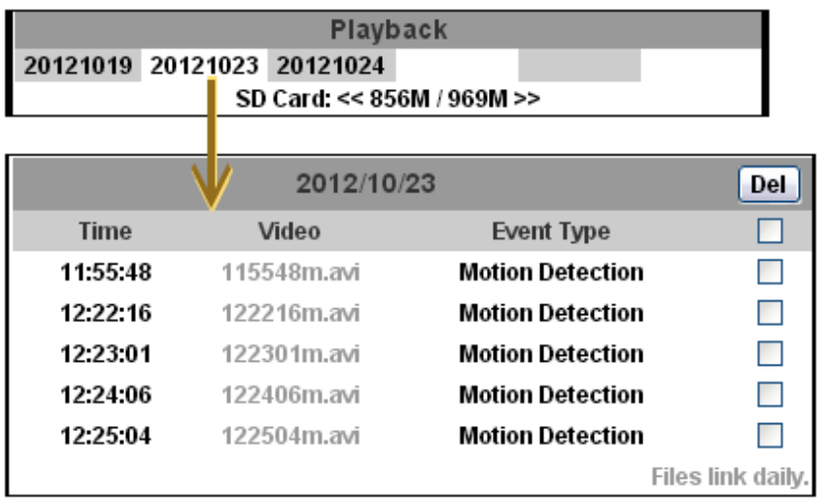


5. SD card

a. Playback

Please Insert Micro SD card before use it. Make sure pushing Micro SD card into the slot completely.

Click the date listed on this page, and it shows the list of the video. The video format is AVI. Click the video to start Microsoft Media Player to play it. To delete the video, check it, then click "Del".

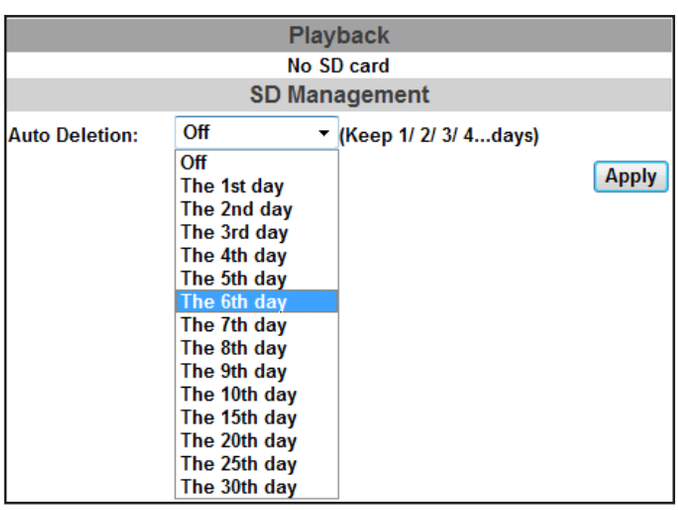


b. SD Management

"Auto Deletion" means the recoding files will be deleted after several days as you selected.

Example: If "The 2st day" is selected, then the recording file at 2012/11/21 5:00AM will be deleted from SD card at 2012/11/23 5:00AM. That is, if the user check the SD card at 2012/11/21 5:00AM, he can only find the recording files between 2012/11/19 5:00AM ~ 2012/11/21 5:00AM.

The oldest file will be deleted if the SD card is full.



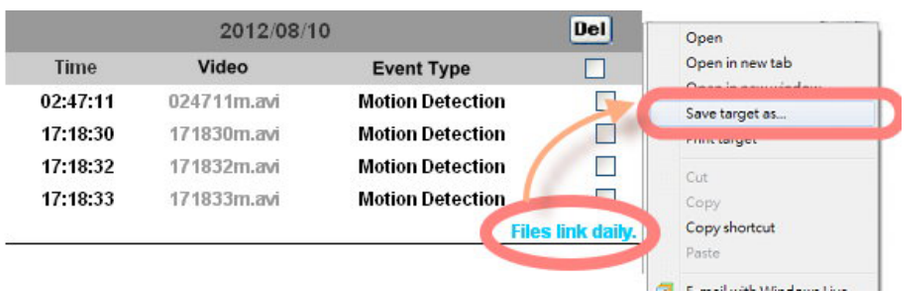
Note：The use of the SD card will affect the operation of the IP Camera slightly, such as affecting the frame rate of the video.

c. Copy to PC

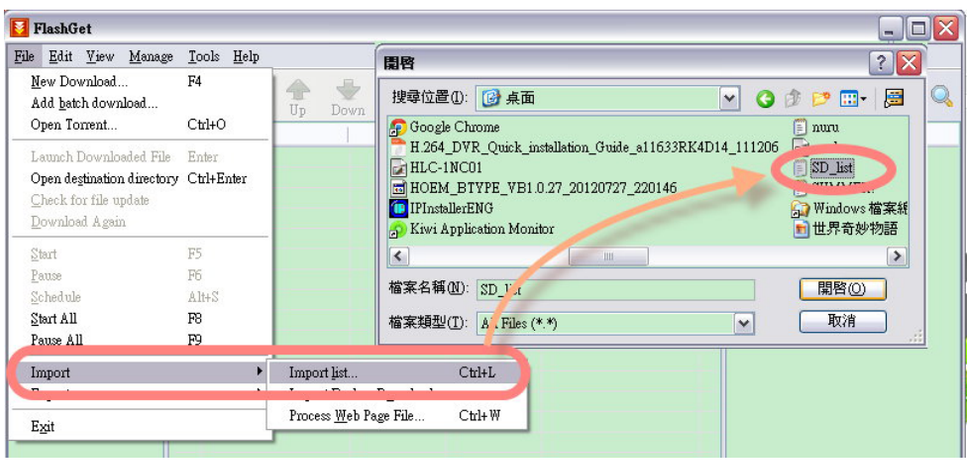
You can insert the Micro SD card to PC and read the files directly, or use FlashGet instead to download the files from IP camera. (In this way you do not need to pull out Micro SD card from the camera.)

To use FlashGet for downloading the image and video data from the Micro SD card, please follow the steps:

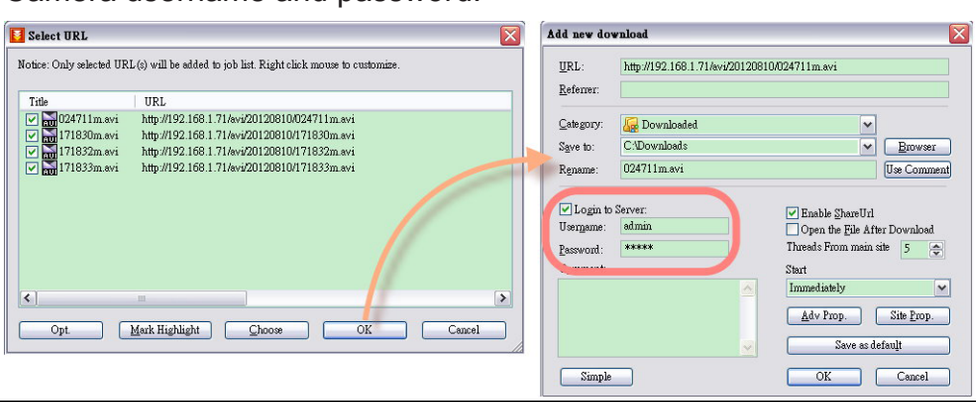
(i) Enter the data list and right-click "Files link daily", select "save target as..." to save the link list to PC.



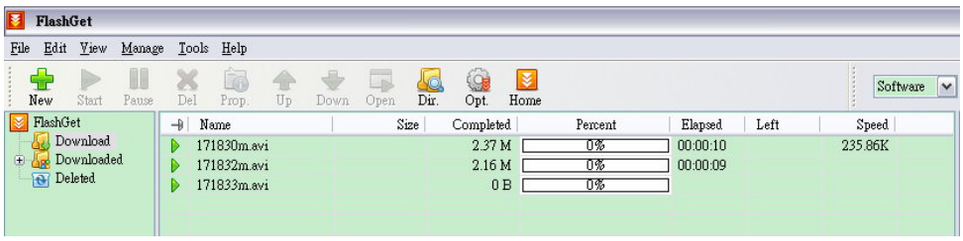
(ii) Open FlashGet, select "File" → "Import" → "Import list", and find the link list file you just saved. The file name may be called "SD_list".



(iii) FlashGet will show you the link list, and you can tick the files you want to copy to your PC. Give the directory path in the new download window, and remember to enable "Login to Server": key in the IP Camera username and password.



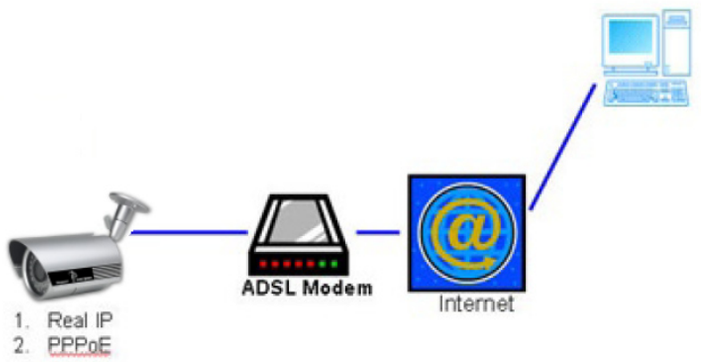
(iv) Click OK to start download.



- FlashGet is a free software that can be downloaded from FlashGet official website. The example above is based on FlashGet ver.1.9.6.

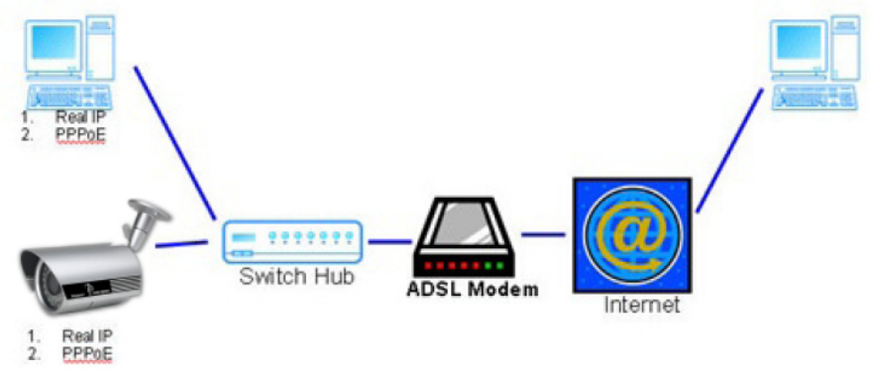
VI. Network Configuration

- Configuration 1:



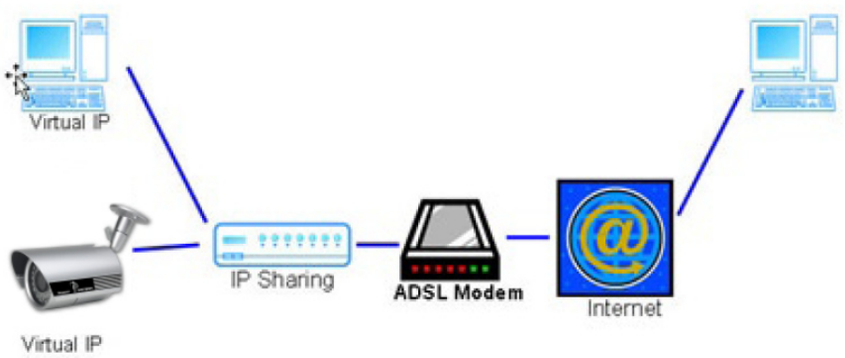
a. Internet Access: ADSL or Cable Modem
b. IP address: One real IP or one dynamic IP
c. Only IP Camera connects to the internet
d. For fixed real IP, set up the IP into IP Camera. For dynamic IP, start PPPoE.

- Configuration 2:



a. Internet AccessL: ADSL or Cable Modem
b. IP address: More than one real IP or one dynamic IP
c. IP Camera and PC connect to the internet
d. Device needed: Switch Hub
e. For fixed real IP, set up the IP into IP Camera and PC. For dynamic IP, start PPPoE.

- Configuration 3:

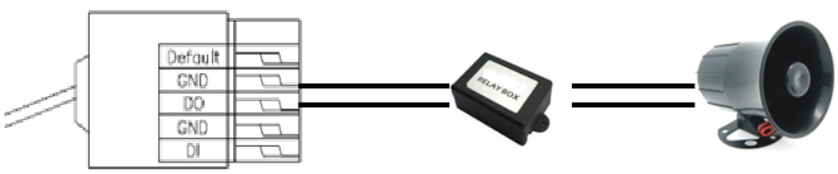


a. Internet Access: ADSL or Cable Modem
b. IP address: one real IP or one dynamic IP
c. IP Camera and PC connect to the internet
d. Device needed: IP sharing
e. Use virtual IP, set up port forwarding in IP sharing.

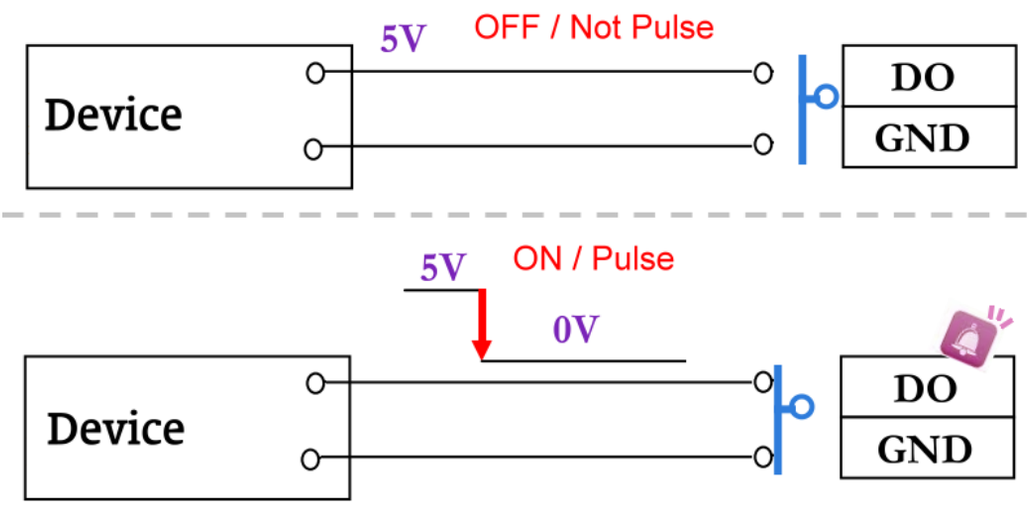
VII. I/O Configuration

1. I/O Connection

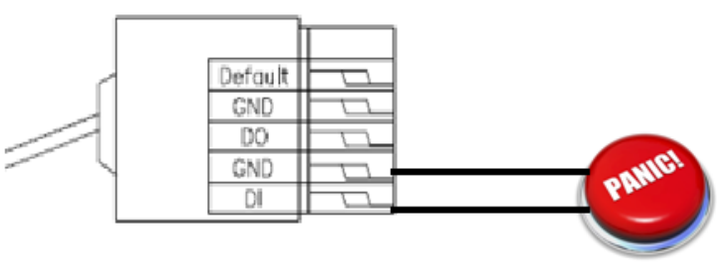
a. Please connect the GND & DO pin to the external relay (buzzer) device.



When no event happens, DO output is 5V (DO and GND are disconnected). When the camera detects event happening and triggers external alarm, DO output is 0V (DO and GND are connected).

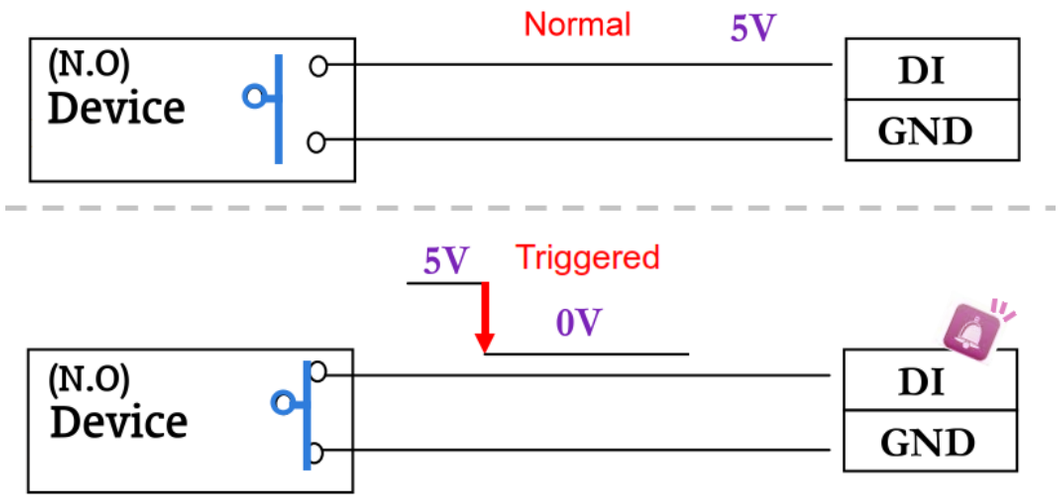


b. Please connect the GND & DI pin to the external trigger device.



If you select "N.O" in "Input sensor setting", when external devise or circuit makes DI and GND pin connected, the camera input alarm is triggered, and then camera will execute the action user has set, for example, send snapshot to E-mail address.

If you select "N.C" in "Input sensor setting", when external devise or circuit makes DI and GND pin disconnected, the camera input alarm is triggered, and then camera will execute the action user has set, for example, send snapshot to E-mail address.

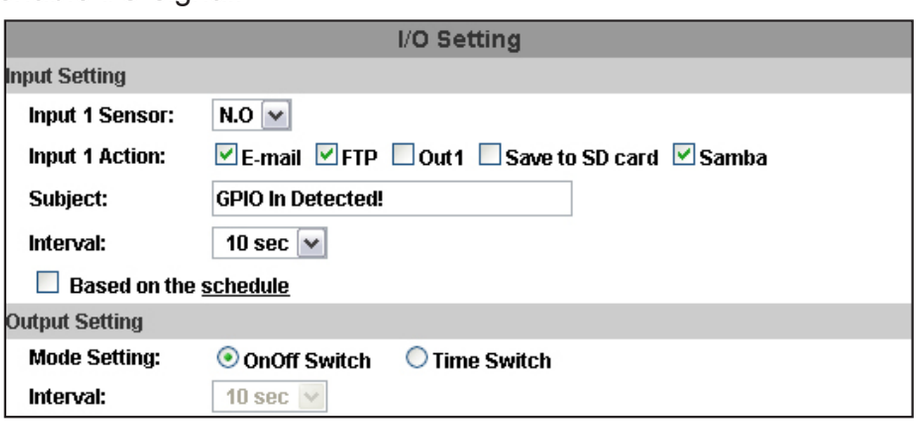


c. I/O PIN definition

- GND (Ground): Initial state is LOW
- DO (Digital Output): DC 5V
- DI (Digital Input): Max. 50mA, DC 5V

2. I/O Setup

a. Click I/O Setting from the system setup page via IE, and check “Out1” to enable I/O signal.

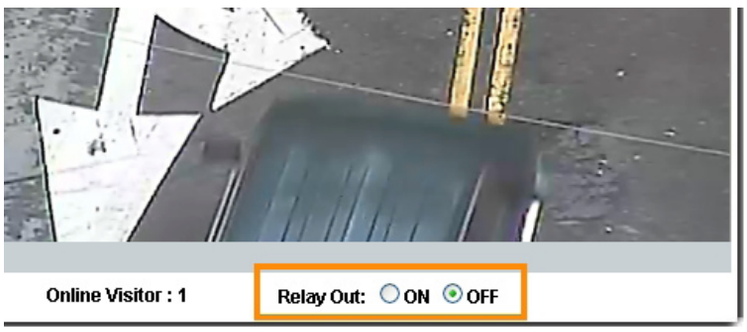

I/O Setting
Input Setting
Input 1 Sensor: N.O
Input 1 Action: E-mail FTP Out1 Save to SD card Samba
Subject: GPIO In Detected!
Interval: 10 sec
Based on the schedule
Output Setting
Mode Setting: OnOff Switch Time Switch
Interval: 10 sec

b. Output Test

After the external input and output hardware is installed, you can use the "Relay Out" bottom on the live video page to test if DO / Relay Out works.

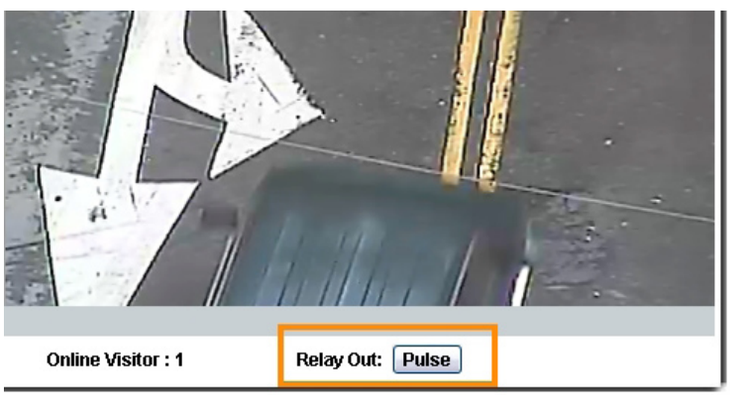
(i) OnOff Switch mode:

Click "ON", the camera will trigger the external output devise. For example, your alarm buzzer will continuously ring. You can manually break off the output signal by clicking "OFF".



(ii) Time Switch mode:

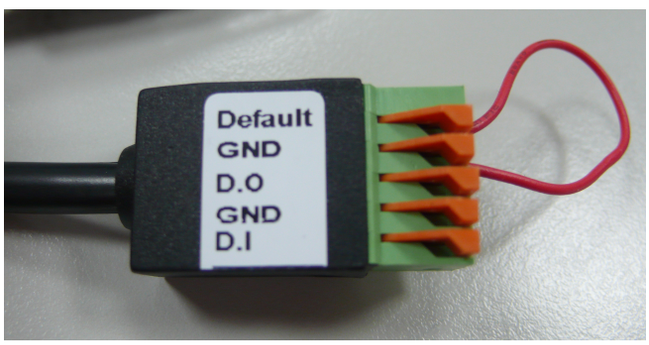
Click "Pulse", the camera will trigger the external output devise for several seconds, The duration length is according to the "interval" setting in Output Setting.



VIII. Factory Default

If you forget your password, please follow the steps to revert back to default value.

- Remove the power and ethernet cable.
- Take a electronic wire, plug one side of the wire into "Default" and the other side into "GND" on the terminal block as the picture below.



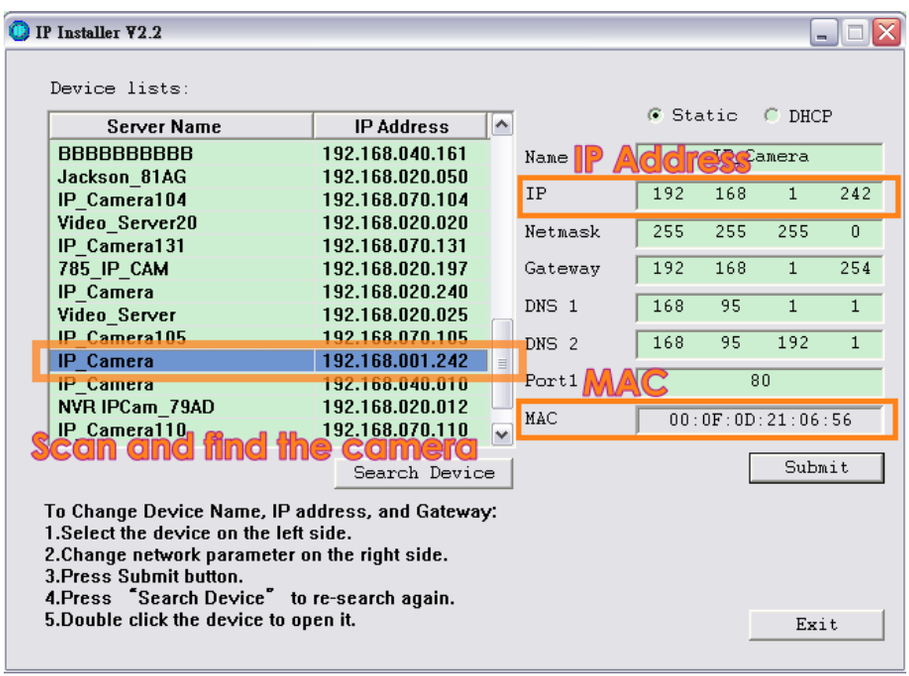
- Connect power to the camera again. It takes around 30 seconds to boot the camera.
- Remove the wire and plug in the ethernet cable after the camera finishes booting.
- Re-login the camera using the default IP (http://192.168.1.200), and user name (admin), password (admin).

IX. Universal Password

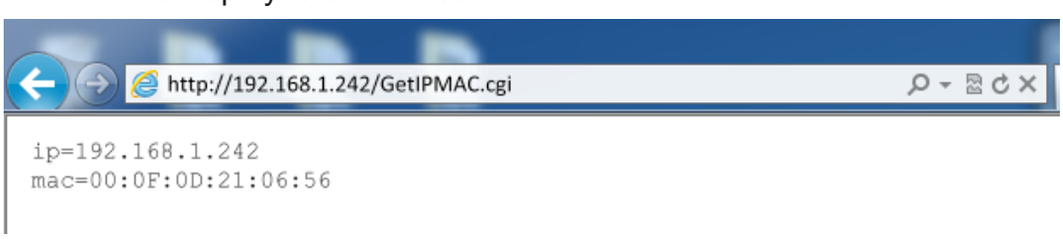
If you forgot the password of your IP camera, you can reset the camera to factory default, or follow the procedure below to generate a universal password.

Note: Universal password will be valid only when you enable the function in User Management.

1. First, you need to know the IP address and MAC of your IP camera. You can use IP installer to scan the LAN, and see the IP address and MAC on the side column.

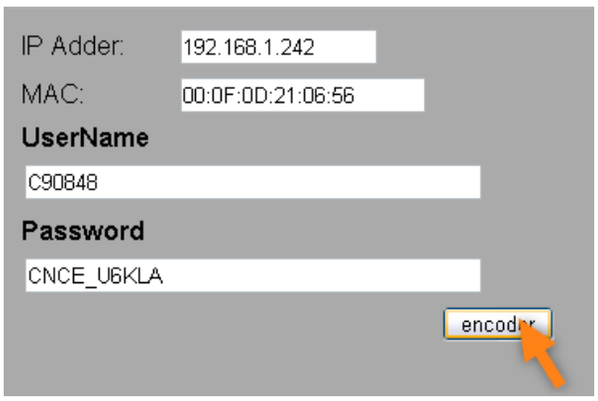


Or, if you already know the IP address of camera: Open the web browser, key in “http:// (IP address) /GetIPMAC.cgi” and press enter. The IP address and MAC will be displayed on browser.



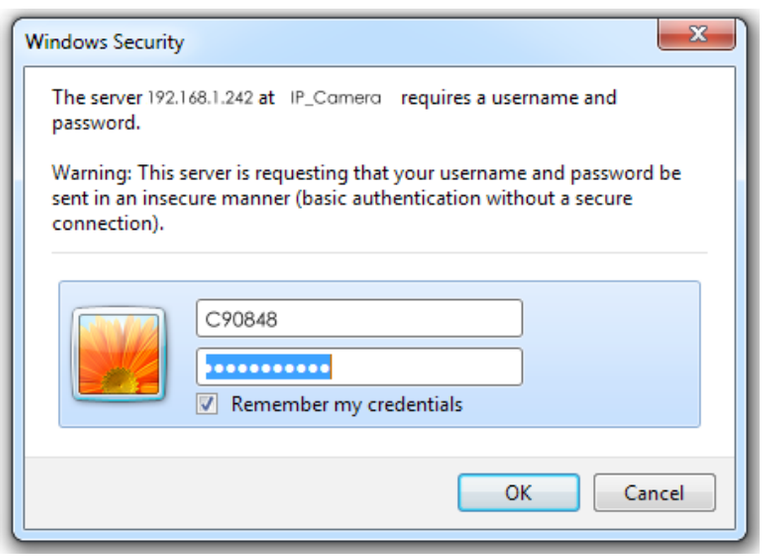
2. Find the .html file named “Universal Password” in CD-ROM. Click to open it.

3. Key in the camera IP address in “IP Adder.” column and MAC in “MAC” column, and then click “encoder”. You will see a set of username and password appear, as below:



The universal username and password are generated from the IP address and MAC you key in, so if you change the camera IP address, the universal password changes, too.

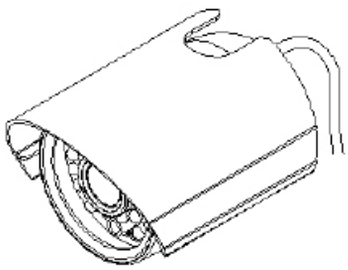
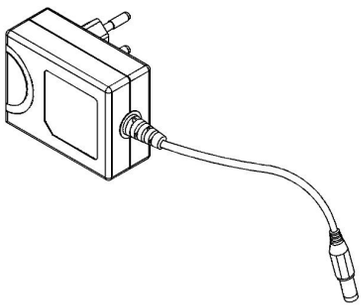
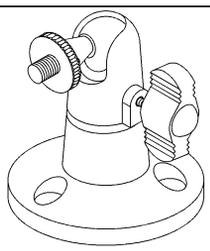
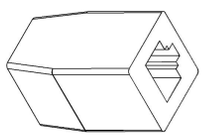
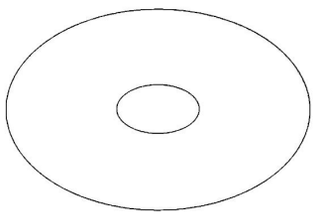
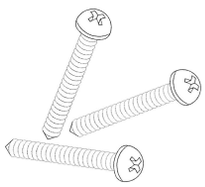
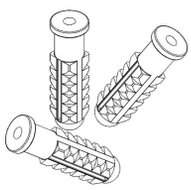
4. Take the picture for example, the universal username is “C90848” and password is “CNCE_U6KLA”. Use them to log in the camera.


Windows Security
The server 192.168.1.242 at IP_Camera requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
C90848
Remember my credentials
OK
Cancel

5. Now you are logging in as administrator. Turn to User Management page. The use of universal password does not affect the previous user setting, so the administrator account password does not change until you edit it. Please click “Edit” to give a new administrator password.

System Information
User Management
System
System Update
IP Setting
Advanced
PPPoE & DDNS
Server(Mail,FTP...)
Network
Image Setting
Video Setting
A/V Setting
Audio
Event Setting
Schedule
I/O Setting
Log List
Event
SD Card
User_Setting - Google Chrome
about:blank
User Setup
Username: admin
Password:
Confirm:
OK
Setup new Password
Add/Set
User List
Username
User Group
Modify
Remove
admin
Administrator
Edit

X. Package Contents

IP Camera	Adaptor	Quick Installation Guide
		
Bracket	RJ45 Female to Female Connector	CD
		
Screws x3	Wall Plug x3	
		

- Adaptor: AC100-240V DC12V/1A
- The CD includes User manual and software tools.

XI. Micro SD Card Compatibility

The following is the Micro SD Card recommended:

Transcend	SDHC	class4	16GB
	SDHC	class4	32GB
	SD	class4	16GB
	SD	class4	32GB
	SDHC	class6	4GB
	SDHC	class6	8GB
	SDHC	class6	16GB
	SD	class6	4GB
	SD	class6	8GB
	SD	class6	16GB
	SDHC	class10	4GB
	SDHC	class10	8GB
	SDHC	class10	16GB
SanDisk	SDHC	class4	4GB
	SDHC	class4	8GB
	SDHC	class4	16GB
	SDHC	class4	32GB